POTATO VARIETIES IN CANADA

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FOREWORD

During recent years, the list of varieties available to the Canadian Seed Potato Grower has increased dramatically. However, it has been difficult for the grower to gain rapid access to new variety information. To meet this need the editors have compiled the general details of all varieties registered in Canada from the official descriptions and trials conducted in North America. In addition a section "Potato Varieties and Advanced Selections for Observation" has been included. The varieties and selections in this section are currently being evaluated for suitability for production in Canada.

This booklet gives an indication of the characteristics of most interest to the grower such as yielding capability, suitability for processing and market potential. This information should prove useful to the growers in this province, in Canada and wherever there is an interest in growing potatoes.

The first and second editions of the publication were published in 1985 and 1986 respectively. The third edition was enlarged and completely revised in 1988. This fourth edition has been updated and expanded to include the results of variety trails conducted in New Brunswick, Canada in order to provide additional information on the performance and management requirements when grown under New Brunswick field conditions.

Gary Hawkins, Jacques Lavoie and Ghislain Pelletier, Potato Specialists, with the New Brunswick Department of Agriculture have provided information obtained from research and demonstration plots in the Upper Saint John River Valley in New Brunswick.

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ABNAKI

Parentage	:	USDA B4116-2 x X1276-185
Breeder	:	USDA Beltsville, Maryland
Released	:	1971
Classification	:	Table

DESCRIPTION

Tuber shape	:	Round
eyes	:	Shallow
skin	:	Smooth, buff
flesh	:	White
Plant	:	Large, upright growth with many white flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	High
Maturity	:	Medium late
Resistances	:	Verticillium wilt - resistant to common races PLRV - very resistant PVX - very resistant Net necrosis - very resistant
Consumer Quality	:	Good boiling quality
Chief Market	:	Fresh market

ACADIA RUSSET

Parentage	:	Bake King x Norgold Russet
Breeder	:	Agriculture Canada, Research Station, Fredericton, New Brunswick
Released	:	1981
Classification	:	Table

DESCRIPTION

Tuber shape	:	Oblong
eyes	:	Few, shallow
skin	:	Lightly russeted, buff color
flesh	:	Creamy white
Plant	:	Medium, upright growth, white flowers with yellowish-green star

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	High
Maturity	:	Late
Resistances	:	PLRV - moderately resistant Phoma storage rot - moderately resistant Fusarium - moderately resistant
Susceptibilities	:	PVY - susceptible PVA - susceptible Verticillium - highly susceptible Common scab - susceptible
Consumer Quality	:	Excellent boiling and baking quality, fair for french fries
Chief Market	:	Count carton trade as a baker
Remarks	:	Relatively low set. Space at 8 inches for fresh market. Avoid excessive fertilizer application.

ALPHA

Parentage	:	Paul Kruger x Preferent
Breeder	:	Prof. Dr. Ir. J.C. Dorst, Leeuwarden, Holland
Released	:	1925
Classification	:	Table

DESCRIPTION

Tuber shape	:	Oval
eyes	:	Shallow
skin	:	Yellow
flesh	:	Light yellow
Plant	:	Medium and spreading with mauve flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	Medium
Maturity	:	Very late
Resistances	:	Wart disease - immune Late blight - moderately resistant Common scab - moderately resistant
Susceptibilities	:	PLRV - very susceptible PVY - very susceptible
Storability	:	Little sprouting in storage
Consumer Quality	:	Good for boiling
Chief Market	:	Seed export
Remarks	:	Very late with a very high set. Seed should be well prepared to advance maturity. Use low nitrogen. Space at 8 inches.

AMISK (seedling # A7354-3)

Parentage	:	A66102-13 x Targhee
Breeder	:	USDA and The Univeristy of Idaho, Aberdeen, Idaho. Selected at Agriculture Canada, Lethbridge, Alberta
Released	:	1990
Classification	:	Processing

DESCRIPTION

Tuber shape	:	Oblong to long
eyes	:	Shallow
skin	:	Light russeted
flesh	:	White
Plant	:	Large, with medium purple flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	High
Maturity	:	Mid-season
Resistances	:	Common scab - moderately resistant Early blight - moderately resistant
Storability	:	Good
Consumer Quality	:	Excellent french fry and table quality
Chief Market	:	Manufacture of french fries

ANSON

Parentage	:	Mira x F5318
Breeder	:	Agriculture Canada, Research Station, St. John's, Newfoundland
Released	:	1981
Classification	:	Table

DESCRIPTION

Tuber shape	:	Round to oval
eyes	:	Medium shallow
skin	:	Smooth white
flesh	:	Creamy white
Plant	:	Upright, medium large with white flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	High
Maturity	:	Mid-season to late
Resistances	:	Wart - resistant Late blight - moderately resistant
Susceptibilities	:	Golden nematode - susceptible
Storability	:	Good
Consumer Quality	:	Excellent boiling and baking quality
Chief Market	:	Fresh market in Newfoundland

ATLANTIC

Parentage	:	Wauseon x B5141-6
Breeder	:	USDA, Florida, Virginia, New Jersey and Maine Agricultural Experiment Stations
Released	:	1976
Classification	:	Table and processing

DESCRIPTION

Tuber shape	:	Oval to round
eyes	:	Shallow
skin	:	Light-to-heavy scaly net, buff
flesh	:	White
Plant	:	Medium large size, upright, large leaves with lavender flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	High
Maturity	:	Mid-season
Resistances	:	Late blight - resistant to race 0 Golden nematode - resistant to race A PVX - highly resistant Tuber net necrosis - highly resistant Common scab - tolerant Verticillium wilt - tolerant Bacterial pink eye disease - resistant Wart - moderately resistant
Susceptibilities	:	Heat necrosis - susceptible when grown on hot, sandy soils
Storability	:	Medium dormancy; maintains good color
Consumer Quality	:	Excellent chip and french fry quality and good fresh market quality
Chief Market	:	Chipping or fresh market
Remarks	:	Plant at 7-8" in the row to avoid hollow heart. Atlantic is an excellent chipper but due to high specific gravity under dry conditions, starch accumulation occurs in the cortex region as a result of bruising. When fried the starch accumulations give a white spot in the potato chip. If the starch accumulations convert to reducing sugars during storage a dark spot occurs in the chips. In Ontario Atlantic is only used for chipping directly from the field. This cultivar has good tuber set and uniform tuber size and shape. Wide adaptation.

AVON

Parentage	:	F1464-26 x USDA96-56
Breeder	:	Agriculture Canada, Research Station, Fredericton, New Brunswick
Released	:	1958
Classification	:	Table and processing

DESCRIPTION

Tuber shape	:	Round
eyes	:	Medium deep
skin	:	Smooth, buff
flesh	:	White
Plant	:	Compact, medium size with many white flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	Medium
Maturity	:	Mid-season, early sizing of tubers
Resistances	:	Common scab - highly resistant Late blight - resistant to race 1
Susceptibilities	:	Hollow heart - very susceptible
Consumer Quality	:	Excellent boiling and good for chipping directly from the field and from storage after reconditioning
Chief Market	:	Early fresh market and early chipping

BANANA

Parentage	:	Unknown. First grown by early settlers in BC
Breeder	:	Unknown. Thought to have originated in Russia
Released	:	Full registration in 1990
Classification	:	Table

DESCRIPTION

Tuber shape	:	Banana shape, with small size tubers
eyes	:	Shallow
skin	:	Yellow
flesh	:	Yellow
Plant	:	Medium size. Medium purple-lavender flowers with white tips. Petals fused.

CHARACTERISTICS

Yield	:	Low
Specific Gravity	:	Medium
Maturity	:	Late
Resistances	:	Common scab - good resistance
Storability	:	Good with medium dormancy
Consumer Quality	:	Good boiled and for potato salad
Chief Market	:	Home garden variety
Remarks	:	Used only as a home garden variety

BATOCHE

Parentage	:	Redskin x Scott 2774-3R
Breeder	:	Agriculture Canada, Research Station, Fredericton, NB. Selected at the Experimental Station, Scott, Saskatchewan.
Released	:	1976
Classification	:	Table

DESCRIPTION

Tuber shape	:	Round-oblong
eyes	:	Medium shallow
skin	:	Bright red
flesh	:	Creamy white
Plant	:	Moderately large and spreading with light purple flowers with light tips. Few flowers open.

CHARACTERISTICS

Yield	:	Medium
Specific Gravity	:	Medium
Maturity	:	Mid-season
Resistances	:	Verticillium wilt - moderately resistant
Susceptibilities	:	Hollow heart - moderately susceptible PLRV - moderately susceptible Late blight - moderately susceptible PVY - moderately susceptible
Storability	:	Good
Consumer Quality	:	Fair boiling and baking quality
Chief Market	:	Table and export seed potential
Remarks	:	Production in the Prairies is limited, mostly due to susceptibility to hollow heart.

BELCHIP

Parentage	:	Wauseon x USDA B5141-6
Breeder	:	USDA, Beltsville, Maryland
Released	:	1978
Classification	:	Processing

DESCRIPTION

Tuber shape	:	Round and flat
eyes	:	Moderately deep
skin	:	Light net and buff
flesh	:	White
Plant	:	Erect and spreading; medium large size with white flowers.

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	High
Maturity	:	Late
Resistances	:	PVA - highly resistant PVX - highly resistant Net necrosis - highly resistant Common scab - moderately tolerant Verticillium wilt - moderately tolerant Pinkeye disease - moderately tolerant Golden nematode - resistant to race A Late blight - resistant to race 0 Heat necrosis - tolerant Hollow heart - tolerant
Storability	:	Very good; reconditions readily in 2 or 3 weeks
Consumer Quality	:	Very good for baking, boiling and chipping
Chief Market	:	Chipping
Remarks	:	Earlier emergence than Atlantic but sizes more slowly and is not as smooth. Susceptible to Potato Rot Nematode and to top kill injury.

BELLEISLE

Parentage	:	834C(29) x F47024
Breeder	:	Agriculture Canada, Research Station, Fredericton, New Brunswick
Released	:	1974
Classification	:	Table

DESCRIPTION

Tuber shape	:	Oval
eyes	:	Shallow
skin	:	Buff; slightly netted
flesh	:	White
Plant	:	Large upright growth with white flowers. Blossoms over an extended period.

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	High
Maturity	:	Late
Resistances	:	Late blight - moderate field resistance Late blight tuber rot - moderately resistant Common scab - moderately resistant Fusarium dry rot - highly resistant Tuber net necrosis -highly resistant Bruising and skinning - highly resistant
Susceptibilities	:	Verticillium wilt - highly susceptible Does not tolerate the herbicide Metribuzin. Do not use Sencor or Lexone on this variety.
Storability	:	Good
Consumer Quality	:	Excellent boiling and baking, good french fry quality, adhering stolons may cause problems in processing.
Chief Market	:	Table
Remarks	:	Performs well under organic production practices. Suitable for home gardens.

BELMONT (seedling # F70021)

Parentage	:	Raritan x F51013
Breeder	:	Agriculture Canada, Research Station, Fredericton, New Brunswick.
Released	:	1988
Classification	:	Table

DESCRIPTION

Tuber shape	:	Round
eyes	:	Shallow
skin	:	Buff
flesh	:	White
Plant	:	Medium size with white flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	High
Maturity	:	Second early
Resistances	:	Verticillium wilt - highly resistant PLRV - slightly-moderately resistant PVY - moderately resistant Fusarium - moderately resistant Rhizoctonia - moderately resistant
Susceptibilities	:	Common scab - susceptible Late blight - susceptible Phoma - susceptible Early blight - susceptible Verticillium dahliae - susceptible
Consumer Quality	:	Boiling quality acceptable for early fresh market; baking quality fair
Chief Market	:	Early fresh market.

BELRUS

Parentage	:	Penobscot x W39-1
Breeder	:	USDA Beltsville Agricultural Research Centre, Beltsville, Maryland
Released	:	1978
Classification	:	Table

DESCRIPTION

Tuber shape	:	Oblong to long
eyes	:	Shallow, bordered by white skin
skin	:	Heavy russeted, dark
flesh	:	White
Plant	:	Medium size, upright with many dark pink flowers

CHARACTERISTICS

Yield	:	Fairly good
Specific Gravity	:	High
Maturity	:	Medium late
Resistances	:	Virus A - highly resistant Tuber net necrosis - highly resistant Leaf roll virus - highly resistant PVY - moderately resistant Tuber heat necrosis - highly resistant Bacterial pink eye disease - highly resistant Northern root knot nematode - highly resistant Verticillium wilt - moderately resistant Common scab - moderately resistant
Susceptibilities	:	Early blight - highly susceptible Drought - very susceptible due to shallow root system
Storability	:	Good with medium dormancy and tolerance to storage rots and shrinkage
Consumer Quality	:	Excellent for baking, french fries and flakes
Chief Market	:	Fresh market in the count carton trade
Remarks	:	Rarely produces knobby tubers under conditions of moisture and temperature stress. Total yields are generally lower than Russet Burbank, however, marketable yields are usually as good or higher. Space at 13-16 inches for count production.

BINTJE

Parentage	:	Munstersen x Fransen
Breeder	:	K.L. de Vries, The Netherlands
Released	:	1910
Classification	:	Seed export and fresh market

DESCRIPTION

Tuber shape	:	Oblong
eyes	:	Shallow
skin	:	Smooth, pale yellow
flesh	:	Light yellow
Plant	:	Compact, medium, few white flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	High
Maturity	:	Late
Resistances	:	Virus A - highly resistant
Susceptibilities	:	Common scab - susceptible
Storability	:	Fair
Consumer Quality	:	Excellent boiler, baker, french frier, and chipper
Chief Market	:	Seed export and table. The most widely grown yellow-fleshed variety world-wide, very well accepted in certain ethnic markets in Canada.
Remarks	:	High tuber set, recommended spacing 16-18 inches for table and 8 inches in the row for export seed production.

BLUE MAC

Parentage	:	Arran Victory x And 5-142
Breeder	:	Agriculture Canada, Research Station, St. John's, Newfoundland
Released	:	1979
Classification	:	Table

DESCRIPTION

Tuber shape	:	Round
eyes	:	Medium shallow
skin	:	Blue-purple
flesh	:	White
Plant	:	Vigorous, upright, medium large with large white flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	Medium
Maturity	:	Late
Resistances	:	Wart - resistant Late blight - moderately resistant
Susceptibilities	:	Golden nematode - susceptible Common scab - susceptible
Storability	:	Keeps well
Consumer Quality	:	Good boiling and baking quality
Chief Market	:	Table in Newfoundland
Remarks	:	Heavy set, space at 14-16 inches

BRIGUS

Parentage	:	G64-124-5p x SJ62-26-14
Breeder	:	Agriculture Canada, Research Station, St. John's, Newfoundland
Released	:	1983
Classification	:	Table

DESCRIPTION

Tuber shape	:	Oval
eyes	:	Shallow
skin	:	Blue-purple, smooth
flesh	:	Creamy yellow
Plant	:	Upright, medium large, stems heavily pigmented. Red purple flowers.

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	Medium
Maturity	:	Mid-season
Resistances	:	Wart - resistant Late blight - moderately resistant Storage diseases - moderately resistant
Susceptibilities	:	Common scab - susceptible Golden nematode - susceptible Rhizoctonia - susceptible
Storability	:	Good, very short dormancy
Consumer Quality	:	Good for boiling, home french fries
Chief Market	:	Fresh market in Newfoundland

BUTTE

Parentage	:	A492-2 x Norgold Russet
Breeder	:	USDA and Agricultural Experiment Stations of Idaho, Oregon and Washington
Released	:	1977
Classification	:	Table and processing

DESCRIPTION

Tuber shape	:	Long
eyes	:	Shallow
skin	:	Medium light russet, dark buff
flesh	:	White
Plant	:	Medium, upright to spreading, light red-purple flowers with white tips

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	High
Maturity	:	Very late
Resistances	:	Early blight in tubers - moderately resistant Common scab - resistant Net necrosis - resistant PVX - highly resistant Late blight - field resistant Hollow heart - resistant Jelly end - moderately resistant
Susceptibilities	:	Verticillium wilt - moderately susceptible Early blight foliage - moderately susceptible Fusarium dry rot - moderately susceptible PVY - moderately susceptible Blackleg - susceptible
Storability	:	Fair with medium dormancy
Consumer Quality	:	Good for baking; texture good for french frying but sugars develop in storage producing dark color.
Chief Market	:	Count carton trade as a baker
Remarks	:	In 1986 McDonalds Food Chain decided that they didn't want anymore french fries made with "Butte" because it had a tendency to produce dark colored french fries. Very resistant to Metribuzin injury.

CAMPBELL 13

Parentage	:	Wauseon x B5042-2
Breeder	:	Campbell Institute for Agricultural Research New Jersey
Released	:	1977
Classification	:	Processing and table

DESCRIPTION

Tuber shape	:	Round to oblong
eyes	:	Shallow
skin	:	Buff, slightly netted
flesh	:	White
Plant	:	Medium large with white flowers

CHARACTERISTICS

Yield	:	Good
Specific Gravity	:	High
Maturity	:	Mid-season
Resistances	:	Golden nematode - resistant to race A Late blight - resistant to common races Tuber net necrosis - highly resistant Verticillium wilt - tolerant
Susceptibilities	:	Ozone and air pollution damage - very susceptible
Storability	:	Acceptable with variable chip color
Consumer Quality	:	Good table quality
Chief Market	:	Fresh market

CARIBE

Parentage	:	F55066 x USDA 96-56
Breeder	:	Agriculture Canada, Research Station, Fredericton, New Brunswick
Released	:	1984
Classification	:	Table

DESCRIPTION

Tuber shape	:	Oblong
eyes	:	Medium deep
skin	:	Purple
flesh	:	White
Plant	:	Mid-size, fairly upright with pale purplish blue flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	Medium
Maturity	:	Very early. Tubers bulk very rapidly
Resistances	:	Common scab - moderately resistant Phoma storage rot - moderately resistant PLRV - moderately resistant
Susceptibilities	:	PVY - very susceptible Fusarium - susceptible Metribuzin - susceptible
Storability	:	Not for use as a table potato during the winter. Looses purple color during storage.
Consumer Quality	:	Good table quality. Fair for chips and french fries
Chief Market	:	Seed potato export and early table
Remarks	:	Has shown wide adaptability. Space at 6 inches for seed export with low nitrogen.

CARLTON

Parentage	:	F47024 x F55069
Breeder	:	Agriculture Canada, Research Station, Fredericton, New Brunswick. Selected at the Experimental Station, Scott, Saskatchewan.
Released	:	1982
Classification	:	Table

DESCRIPTION

Tuber shape	:	Oval
eyes	:	Shallow
skin	:	White
flesh	:	Creamy white
Plant	:	Medium size, spreading, pale purple white tipped flowers.

CHARACTERISTICS

Yield	:	Medium
Specific Gravity	:	Medium
Maturity	:	First early
Resistances	:	PVX - moderately field resistant
Consumer Quality	:	Fair boiling quality
Chief Market	:	Early fresh market in Western Canada
Remarks	:	Acreage in Western Canada has decreased in the last 2-3 years due to inconsistent yield. When harvested as an early, skinning and stolen adherence can be a problem.

CHALEUR (seedling # F72090)

Parentage	:	Belleisle x N457
Breeder	:	Agriculture Canada, Research Station, Fredericton, New Brunswick
Released	:	1988
Classification	:	Table

DESCRIPTION

Tuber shape	:	Round-oval, blocky
eyes	:	Moderately deep
skin	:	Buff, smooth
flesh	:	White
Plant	:	Medium large, spreading with white flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	Medium
Maturity	:	Second early
Resistances	:	PVY - highly resistant Common scab - moderately resistant Tuber early blight - resistant Verticillium wilt - slightly resistant
Susceptibilities	:	PLRV - susceptible Late blight - susceptible Phoma - susceptible Fusarium - susceptible Foliar early blight - susceptible Verticillium dahliae - susceptible
Consumer Quality	:	Good cooking quality
Chief Market	:	Early fresh market
Remarks	:	An excellent variety for the early fresh market.

CHEROKEE

Parentage	:	USDA X96-56 x USDA X528-170
Breeder	:	USDA, Beltsville, Maryland & Presque Isle, Maine and the Iowa and Indiana Agricultural Experiment Stations
Released	:	1954
Classification	:	Table

DESCRIPTION

Tuber shape	:	Round and somewhat flat
eyes	:	Medium shallow
skin	:	Buff
flesh	:	White
Plant	:	Medium size, spreading, white flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	Medium
Maturity	:	Mid-season
Resistances	:	Common scab - highly resistant Late blight common races - highly resistant Net necrosis - moderately resistant Bruising and skinning - resistant Blackleg - moderately resistant
Storability	:	Very good
Consumer Quality	:	Good boiling quality, early chipper
Chief Market	:	Fresh market, early chipping and seed to Ontario
Remarks	:	Ontario growers have shown a renewed interest in this variety.

CHIEFTAIN

Parentage	:	Ia1027-18 x La1354
Breeder	:	Iowa Agriculture Experiment Station and USDA
Released	:	1966
Classification	:	Seed export and table

DESCRIPTION

Tuber shape	:	Round oval
eyes	:	Shallow to medium
skin	:	Bright red
flesh	:	White
Plant	:	Medium size and spreading with large light violet flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	Medium
Maturity	:	Mid-season
Resistances	:	Late blight - resistant to common races Common scab - highly resistant PVA - resistant Tuber net necrosis - highly resistant Stem-end browning - resistant
Storability	:	Has not stored well in Atlantic Canada
Consumer Quality	:	Fair boiling; good color after boiling and does not turn dark as pre-peeled product. Does not process.
Chief Market	:	Export seed. Pre-peeled product in the institutional trade. Fresh market in Ontario.
Remarks	:	Space at 6 inches with low nitrogen for seed export.

COASTAL RUSSET

Parentage	:	Russet Burbank x B8281-5
Breeder	:	USDA Beltsville Agricultural Research Centre, Beltsville, Maryland
Released	:	1987
Classification	:	Table

DESCRIPTION

Tuber shape	:	Long, slightly flattened, smooth
eyes	:	Shallow, well distributed over tuber
skin	:	Medium russeted
flesh	:	Extremely white
Plant	:	Medium large, upright. Flowers medium purple with cream tips, flat when fully opened. Borne on long peduncles well above foliage. Abundant.

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	Medium
Maturity	:	Mid-season, tubers size early
Resistances	:	Net necrosis - highly resistant Common scab - tolerant Hollow heart - highly resistant Pinkeye - tolerant
Susceptibilities	:	Late blight - susceptible
Storability	:	Good, short dormancy
Consumer Quality	:	Excellent for boiling and baking. Not susceptible to after-cooking darkening.
Chief Market	:	Count carton and special pack trade as a baker.

CONESTOGA

Parentage	:	G7063 x G6652
Breeder	:	Agriculture Canada, The University of Guelph and The Ontario Ministry of Agriculture and Food, Guelph, Ontario
Released	:	1982
Classification	:	Table and processing

DESCRIPTION

Tuber shape	:	Blocky, slightly flattened
eyes	:	Fairly shallow
skin	:	White, very slightly flaked
flesh	:	White
Plant	:	Large, upright, spreading, very vigorous with early growth. White flowers.

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	Medium
Maturity	:	Early
Resistances	:	Leaf roll - moderately resistant Net necrosis - moderately resistant Early blight - moderately resistant Common scab - moderately resistant
Consumer Quality	:	Excellent chipping quality from field, very good boiling and baking.
Chief Market	:	Early fresh market and early chipping
Remarks	:	Emerges rapidly after planting

CRYSTAL

Parentage	:	Cascade x ND7196-18
Breeder	:	North Dakota State University, Fargo, North Dakota
Released	:	1980
Classification	:	Table and processing

DESCRIPTION

Tuber shape	:	Oblong to long
eyes	:	Shallow
skin	:	Smooth, thin, bright, clear, white
flesh	:	White
Plant	:	Large, upright with purple flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	High
Maturity	:	Medium late
Resistances	:	PVX - resistant Common scab - moderately resistant Verticillium wilt - moderately resistant
Susceptibilities	:	Late blight - susceptible Bacterial pink eye - susceptible Soft rot - susceptible Bruising and skinning - highly susceptible
Storability	:	Fair
Consumer Quality	:	Good baking quality
Chief Market	:	Fresh market as a baker
Remarks	:	Grown in California for chipping and french frying. Skin is too thin for production in New Brunswick.

CUPIDS

Parentage	:	N150-3 x Wauseon
Breeder	:	Agriculture Canada, Research Station, St. John's, Newfoundland
Released	:	1986
Classification	:	Table

DESCRIPTION

Tuber shape	:	Round oval
eyes	:	Shallow
skin	:	Slightly russeted
flesh	:	Creamy white
Plant	:	Upright with white flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	Medium
Maturity	:	Mid-season to late
Resistances	:	Wart - resistant Golden nematode - resistant to race A
Susceptibilities	:	Late blight - moderately susceptible Rhizoctonia - moderately susceptible Common scab - susceptible
Consumer Quality	:	Very good boiling
Chief Market	:	Fresh market

DESIREE

Parentage	:	Urgenta x Depesche
Breeder	:	de Z.P.C., Leeuwarden, The Netherlands
Released	:	1962
Classification	:	Seed export

DESCRIPTION

Tuber shape	:	Long oval
eyes	:	Shallow
skin	:	Light red
flesh	:	Light yellow
Plant	:	Medium large, spreading, vigorous with deep violet flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	Medium
Maturity	:	Late
Resistances	:	Wart - immune PVY - fairly resistant Skin spot - resistant
Susceptibilities	:	Late blight - moderately susceptible PLRV - moderately susceptible Common scab - susceptible
Storability	:	Good, short dormancy
Consumer Quality	:	Good boiling quality
Chief Market	:	Seed export
Remarks	:	Space at 8 inches. Nitrogen 100-120 pounds per acre.

DOMINO (seedling # N1051-1)

Parentage	:	Blue Mac x S.V.P. AM66-42
Breeder	:	Agriculture Canada, Research Station, St. John's, Newfoundland
Released	:	1990
Classification	:	Table

DESCRIPTION

Tuber shape	:	Round
eyes	:	Medium shallow
skin	:	Blue purple
flesh	:	White
Plant	:	Vigorous, upright, medium large with white flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	High
Maturity	:	Late
Resistances	:	Wart - resistant Golden nematode - resistant Late blight - moderately resistant
Susceptibilities	:	Common scab - susceptible
Storability	:	Good. Medium dormancy
Consumer Quality	:	Very good boiling quality
Chief Market	:	Table in Newfoundland
Remarks	:	Heavy set, space at 14 to 16 inches.

DONNA

Parentage	:	Raritan x Agitato
Breeder	:	Agriculture Canada, Research Station, Fredericton, New Brunswick
Released	:	1986
Classification	:	Export seed

DESCRIPTION

Tuber shape	:	Oblong
eyes	:	Shallow
skin	:	Buff
flesh	:	Medium yellow
Plant	:	Medium size with white flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	Medium
Maturity	:	Mid-season to late
Resistances	:	Golden nematode - resistant Late blight - moderately resistant
Susceptibilities	:	Common scab - susceptible
Storability	:	Very short dormancy
Consumer Quality	:	Fair to good boiling and baking quality
Chief Market	:	Seed export
Remarks	:	The exclusive proprietary rights to Donna have been awarded by the Government of Canada to McCain Foods Ltd. The intent of this is to give McCain Foods the exclusive rights to evaluate and promote this variety in all countries except the United States. Inquiries about the availability of seed of Donna should be addressod to McCain Foods Ltd., Florenceville, NB, E0J IK0

EARLY ROSE

Parentage	:	Garnet Chili selfed
Breeder	:	Albert Bresee, Hubbardton, Vermont
Released	:	1867
Classification	:	Table

DESCRIPTION

Tuber shape	:	Oblong
eyes	:	Shallow
skin	:	Pink
flesh	:	White, sometimes streaked with red
Plant	:	Large, spreading with large white flowers

CHARACTERISTICS

Yield	:	Medium
Specific Gravity	:	Medium
Maturity	:	Early
Consumer Quality	:	Good boiling
Chief Market	:	Home gardens
Remarks	:	Grown in California as an early variety for the fresh market.

EPICURE

Parentage	:	Magnum Bonum x Early Regent
Breeder	:	J. Clark, Christchurch, England
Released	:	1897
Classification	:	Table

DESCRIPTION

Tuber shape	:	Round, slightly irregular
eyes	:	Deep
skin	:	White turning pink on exposure to light
flesh	:	Creamy white
Plant	:	Upright growth, medium to large, few white flowers with faint green tinge.

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	Medium
Maturity	:	Very early
Resistances	:	Fusarium storage rot - highly resistant Late blight - moderately resistant Virus A - field resistant Virus X - resistant Cold - tolerant, recovers rapidly following frost
Storability	:	Good
Consumer Quality	:	Fair for boiling
Chief Market	:	Early fresh market

ERAMOSA

Parentage	:	F52047 x F60019
Breeder	:	Agriculture Canada, Research Station, Fredericton, New Brunswick. Selected by Agriculture Canada, Guelph, Ontario
Released	:	1988
Classification	:	Table

DESCRIPTION

Tuber shape	:	Oval, semi-flattened
eyes	:	Shallow
skin	:	Buff
flesh	:	White
Plant	:	Medium large with pale bluish purple flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	Medium
Maturity	:	Very early
Resistances	:	PLRV - highly resistant Common scab - moderately resistant Rhizoctonia - highly resistant Hollow heart - resistant Skinning - highly resistant
Susceptibilities	:	PVY - highly susceptible
Storability	:	Good
Consumer Quality	:	Excellent boiling as a first early
Chief Market	:	Very early fresh market
Remarks	:	Shows a marked response to green sprouting with yields of 200 cwt per acre as early as 62 days.

F73008 (proposed to be named Brador upon full registration)

Parentage	:	F61101 x F60034
Breeder	:	Agriculture Canada, Research Station, Fredericton, New Brunswick
Released	:	1984 (interim registration)
Classification	:	Export seed

DESCRIPTION

Tuber shape	:	Oblong to long
eyes	:	Shallow
skin	:	Buff
flesh	:	Light yellow
Plant	:	Very large with white flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	Medium
Maturity	:	Very late
Resistances	:	Late blight - highly resistant Common scab - moderately resistant Rhizoctonia - moderately resistant
Susceptibilities	:	Hollow heart - susceptible Fusarium - susceptible
Storability	:	Good. Extremely long dormancy
Consumer Quality	:	Good boiling and processing quality
Chief Market	:	Export seed, due to high blight resistance
Remarks	:	Tubers often cling to the heavy stolons making harvest difficult. Six inch spacing. Low nitrogen 80-90 pounds per acre. The exclusive proprietary rights to F73008 have been awarded by the Government of Canada to Potatoes Canada. The intent of this is to give Potatoes Canada the exclusive rights to evaluate and promote this variety in all countries except the United States. Inquiries about the availability of seed of F73008 should be addressed to Potatoes Canada, 500 Beaverbrook Court, Fredericton, NB E3B 5X4.

FUNDY

Parentage	:	Keswick x USDA X96-56
Breeder	:	Agriculture Canada, Research Station, Fredericton, New Brunswick
Released	:	1958
Classification	:	Table

DESCRIPTION

Tuber shape	:	Round
eyes	:	Shallow
skin	:	Smooth, buff, slightly netted
flesh	:	White
Plant	:	Medium height, slightly spreading with few white flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	Medium
Maturity	:	Early
Resistances	:	Late blight - resistant to race 1
Susceptibilities	:	Bruising and skinning - very susceptible
Consumer Quality	:	Excellent boiling and baking but sloughs when overcooked
Chief Market	:	Early fresh market
Remarks	:	This variety must be handled carefully to avoid bruising.

GOLD COIN

Parentage	:	Unknown
Breeder	:	Unknown
Released	:	Unknown
Classification	:	Table

DESCRIPTION

Tuber shape	:	Oblong, flattened
eyes	:	Medium in number, rather shallow
skin	:	Buff, sometimes netted
flesh	:	White
Plant	:	Large and vigorous with many white flowers

CHARACTERISTICS

Yield	:	Medium
Specific Gravity	:	High
Maturity	:	Late
Consumer Quality	:	Good boiling and baking
Chief Market	:	Home gardens and fresh market

GREEN MOUNTAIN

Parentage	:	Dunmore x Excelsior
Breeder	:	O.H. Alexander, Charlotte, Vermont
Released	:	1885
Classification	:	Table

DESCRIPTION

Tuber shape	:	Oblong, flattened with blunt ends
eyes	:	Medium deep
skin	:	Buff, often netted
flesh	:	White
Plant	:	Large, spreading with large white flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	High
Maturity	:	Late
Resistances	:	Fusarium storage rot - resistant Blackleg - moderately resistant Verticillium wilt - moderately resistant
Susceptibilities	:	PVY - extremely susceptible PLRV - extremely susceptible Common scab - highly susceptible Late blight - highly susceptible Net necrosis - highly susceptible
Consumer Quality	:	Excellent boiling and baking
Chief Market	:	Fresh market and home gardens
Remarks	:	An excellent late variety of exceptional quality for home gardens.

HAMPTON

Parentage	:	NY48 x NY51
Breeder	:	Cornell University, Ithaca, New York
Released	:	1985
Classification	:	Table

DESCRIPTION

Tuber shape	:	Round
eyes	:	Shallow
skin	:	Buff
flesh	:	White
Plant	:	Large, with few white flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	Medium
Maturity	:	Late
Resistances	:	Golden nematode - highly resistant Verticillium wilt - moderately resistant
Susceptibilities	:	Common scab - highly susceptible Growth cracks - susceptible Prominent lenticels on heavy soils
Storability	:	Dormancy three weeks longer than Katahdin
Consumer Quality	:	Good boiling quality
Chief Market	:	Fresh Market

HUDSON

Parentage	:	NIF-1 x 56N18-4
Breeder	:	Cornell University, Ithaca, New York
Released	:	1972
Classification	:	Table

DESCRIPTION

Tuber shape	:	Round oval
eyes	:	Moderately shallow
skin	:	Buff, smooth or slightly flaked
flesh	:	White
Plant	:	Very large and spreading with pale purple flowers

CHARACTERISTICS

Yield	:	Very high in New York State but variable in Atlantic Canada
Specific Gravity	:	Medium
Maturity	:	Late
Resistances	:	Golden nematode - resistant to races A+BC
Storability	:	Long dormancy
Consumer Quality	:	Fair boiling and baking; very little after cooking darkening
Chief Market	:	Seed export to New York State

HUNTER

Parentage	:	F48023 x 834 C(29)
Breeder	:	Agriculture Canada, Research Station, Fredericton, New Brunswick
Released	:	1961
Classification	:	Table

DESCRIPTION

Tuber shape	:	Round
eyes	:	Shallow
skin	:	Smooth dark cream, buff
flesh	:	White
Plant	:	Vigorous, medium to large, upright with strong purple flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	Medium
Maturity	:	Mid-season to late
Resistances	:	Late blight - resistant to race 1 PVA - field immune PVX - field immune Blackleg - moderately resistant Verticillium wilt - highly resistant Skinning, bruising and shattering - highly resistant
Susceptibilities	:	Seed piece decay - very susceptible Common scab - susceptible
Storability	:	Excellent
Consumer Quality	:	Excellent boiling and baking
Chief Market	:	Fresh market
Remarks	:	No longer grown commercially due to seed piece decay problem.

HURON

Parentage	:	Sebago x Hindenburg
Breeder	:	Agriculture Canada, Research Station, Fredericton, New Brunswick
Released	:	1958
Classification	:	Table

DESCRIPTION

Tuber shape	:	Oblong- flattened
eyes	:	Medium deep
skin	:	Buff
flesh	:	White
Plant	:	Large, spreading and very vigorous, light mauve flowers with white tips

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	Medium
Maturity	:	Very late
Resistances	:	Common scab - highly resistant Early blight - moderately resistant Bruising and skinning - resistant
Consumer Quality	:	Good boiling and baking
Chief Market	:	Fresh market where common scab is a problem
Remarks	:	A very late variety with excellent resistance to common scab

IRISH COBBLER

Parentage	:	Mutant of Early Rose
Breeder	:	First grown by an Irish Shoemaker in Marblehead, Mass. or Lumberton, N.J., USA
Released	:	Unknown
Classification	:	Table

DESCRIPTION

Tuber shape	:	Round
eyes	:	Deep
skin	:	Buff
flesh	:	White
Plant	:	Medium size, erect to spreading, lilac flowers with white tips

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	High
Maturity	:	Early
Resistances	:	PVA - resistant Blackleg - moderately resistant Fusarium storage rot - moderately resistant Phoma storage rot - moderately resistant Wart - highly resistant
Susceptibilities	:	PVY - highly susceptible Verticillium wilt - highly susceptible
Consumer Quality	:	Good boiling, good chipping quality in early season
Chief Market	:	Early fresh market, early chipping and home gardens
Remarks	:	Yield can be variable

ISLANDER

Parentage	:	Chipbelle x Norchip
Breeder	:	University of Maine, Agricultural Experiment Station, Presque Isle, Maine
Released	:	1983
Classification	:	Processing and table

DESCRIPTION

Tuber shape	:	Oblong, slightly flattened
eyes	:	Shallow with prominent eyebrows
skin	:	Buff, slightly flaky
flesh	:	White
Plant	:	Moderately large, spreading, deep red stems over entire length with some green stems. White flowers.

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	High
Maturity	:	Mid-season
Resistances	:	Golden nematode - resistant Net necrosis - resistant Common scab - resistant Early blight - resistant Acid scab - moderately resistant Rhizoctonia - moderately resistant
Susceptibilities	:	Blackleg - susceptible
Consumer Quality	:	Good table and chip quality
Chief Market	:	Export seed to New York State

JEMSEG

Parentage	:	Sable x F55069
Breeder	:	Agriculture Canada, Research Station, Fredericton, New Brunswick
Released	:	1978
Classification	:	Table

DESCRIPTION

Tuber shape	:	Short oblong
eyes	:	Shallow
skin	:	Buff
flesh	:	White
Plant	:	Medium size, compact, slightly spreading with light purple flowers

CHARACTERISTICS

Yield	:	Medium
Specific Gravity	:	Medium
Maturity	:	Very early sizing
Resistances	:	PVA - highly resistant PVY - highly resistant PVX - immune PVS - highly resistant Wart - resistant
Susceptibilities	:	Hollow heart - very susceptible Common scab - moderately susceptible
Consumer Quality	:	Good boiling and baking quality. Fair chipping quality directly from field
Chief Market	:	Early fresh market
Remarks	:	Plant 7-8" in the row and harvest early to avoid oversize and hollow heart. A valuable variety for the very early fresh market and home garden. Low tuber set. Good response to green sprouting.

KANONA

Parentage	:	Peconic x bulk of golden nematode susceptible clones
Breeder	:	Cornell University, Ithaca, New York
Released	:	1988
Classification	:	Processing

DESCRIPTION

Tuber shape	:	Round
eyes	:	Medium shallow
skin	:	Buff, flaky
flesh	:	White
Plant	:	Medium large, vigorous, lavender flowers with white tips

CHARACTERISTICS

Yield	:	Medium-high
Specific Gravity	:	Medium
Maturity	:	Mid-season
Resistances	:	Golden nematode - resistant Hollow heart - highly resistant
Susceptibilities	:	Common scab - moderately susceptible Late blight - moderately susceptible Early blight - moderately susceptible Verticillium wilt - moderately susceptible Wart - susceptible
Storability	:	Good. Long dormancy. (2 weeks longer than Katahdin)
Consumer Quality	:	Good for chipping from 45° storage, boiling and baking
Chief Market	:	Chipping
Remarks	:	Few internal defects. Low set with large size tubers. Plant emergence is somewhat slow and may be erratic.

KATAHDIN

Parentage	:	USDA 40568 x USDA 24642
Breeder	:	USDA, Presque Isle, Maine
Released	:	1932
Classification	:	Table

DESCRIPTION

Tuber shape	:	Round
eyes	:	Shallow
skin	:	Smooth, buff
flesh	:	White
Plant	:	Medium to large, spreading with many large light purple flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	Medium
Maturity	:	Late
Resistances	:	PVY - moderately resistant PVA - highly resistant PLRV - moderately resistant Drought - tolerant
Susceptibilities	:	Late blight - highly susceptible Common scab - highly susceptible
Storability	:	Excellent
Consumer Quality	:	Good boiling quality
Chief Market	:	Fresh market
Remarks	:	A wet potato with excellent storability

KENNEBEC

Parentage	:	B127 x USDA 96-56
Breeder	:	USDA
Released	:	1948
Classification	:	Table, processing and seed export

DESCRIPTION

Tuber shape	:	Elliptical to oblong
eyes	:	Shallow
skin	:	Smooth, buff
flesh	:	White
Plant	:	Large, spreading growth habit with large leaves and thick stems. Few white flowers.

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	Medium - high
Maturity	:	Mid-season
Resistances	:	Late blight - resistance to race 1 Blackleg - moderately resistant PVY - resistant PVA - resistant Drought - tolerant Wart - highly resistant
Susceptibilities	:	Verticillium wilt - highly susceptible Pink eye - highly susceptible
Storability	:	Good
Consumer Quality	:	An excellent table and good chipping variety
Chief Market	:	Fresh market and chipping. Most important seed export variety due to its wide adaptation.
Remarks	:	At one time a major chipping variety but has gradually been replaced by varieties better suited for processing. This cultivar is still used for chipping in Eastern Canada. Space at 6 inches and low nitrogen for seed production.

KESWICK

Parentage	:	F1020-1 x Green Mountain
Breeder	:	Agriculture Canada, Research Station, Fredericton, New Brunswick
Released	:	1951
Classification	:	Table

DESCRIPTION

Tuber shape	:	Round to oblong
eyes	:	Medium deep
skin	:	Smooth, buff
flesh	:	White
Plant	:	Large, erect, white flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	Medium
Maturity	:	Mid-season
Resistances	:	Late blight - resistance to race 1 Hollow heart - highly resistant
Susceptibilities	:	Fusarium storage rot - highly susceptible PVY - highly susceptible Bruising - susceptible
Storability	:	Good
Consumer Quality	:	Good boiling and baking
Chief Market	:	Early fresh market
Remarks	:	Tends to oversize and become rough. Space at 6-8 inches to avoid oversize.

MAVERICK

Parentage	:	B6330-3 x A6334-20
Breeder	:	Washington State University, selected by the Maine Agricultural Experiment Station, University of Maine, Orono, Maine
Released	:	Not released. Interim registration in Canada, 1990
Classification	:	Table

DESCRIPTION

Tuber shape	:	Oblong to round
eyes	:	Medium shallow, numerous
skin	:	Lightly russeted
flesh	:	White
Plant	:	Medium large, spreading with white flowers

CHARACTERISTICS

Yield	:	Very high
Specific Gravity	:	Low
Maturity	:	Mid-season
Resistances	:	Common scab - highly resistant Acid scab - highly resistant Silver scurf - highly resistant Net necrosis - highly resistant Late blight - highly resistant PVX - highly resistant
Susceptibilities	:	Growth cracks - susceptible Hollow heart - susceptible Verticillium wilt - susceptible
Storability	:	Good to excellent. Medium tuber dormancy.
Consumer Quality	:	Fair to good boiling and baking. After cooking darkening can be a problem.
Chief Market	:	Fresh market

MCINTYRE

Parentage	:	Unknown
Breeder	:	Unknown
Released	:	Unknown
Classification	:	Table

DESCRIPTION

Tuber shape	:	Oblong, slightly flattened
eyes	:	Moderately deep, numerous, occasional light purple shading
skin	:	Buff, with purple shadings, seed end predominantly purple
flesh	:	Light cream
Plant	:	Medium to large, spreading, light lilac flowers with white tips

CHARACTERISTICS

Yield	:	Medium
Specific Gravity	:	High
Maturity	:	Very late
Resistances	:	Late blight - field resistance Common scab - moderately resistant
Consumer Quality	:	Good cooking quality
Chief Market	:	Home gardens in Prince Edward Island

MIRTON PEARL

Parentage	:	Mira x F5318
Breeder	:	Agriculture Canada, Research Station, St. John's, Newfoundland
Released	:	1975
Classification	:	Table

DESCRIPTION

Tuber shape	:	Round, with deep stem end
eyes	:	Medium deep
skin	:	Buff
flesh	:	White
Plant	:	Medium large with white flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	High
Maturity	:	Early mid-season
Resistances	:	Wart - resistant Bruising - fairly resistant Late blight - moderately resistant Common scab - moderately resistant
Susceptibilities	:	Golden nematode - susceptible
Storability	:	Good
Consumer Quality	:	Excellent boiling and baking quality
Chief Market	:	Fresh market
Remarks	:	Space 7-8 inches in the row to avoid oversize. This variety has very high yield performance in Atlantic Canada.

MN9632

Parentage	:	MN111.67-19 x MN1140.71-1
Breeder	:	University of Minnesota, St. Paul, Minnesota, selected by the Prairie Potato Breeding Committee.
Released	:	Not released to date
Classification	:	Processing and table

DESCRIPTION

Tuber shape	:	Oval
eyes	:	Medium shallow
skin	:	Light russet
flesh	:	Cream
Plant	:	Medium, upright, with white flowers

CHARACTERISTICS

Yield	:	Medium
Specific Gravity	:	High
Maturity	:	Mid-season
Resistances	:	Common scab - resistant Early blight - moderately resistant PLRV - moderately resistant PVY - resistant
Susceptibilities	:	Late blight - very susceptible PVS - susceptible
Storability	:	Good
Consumer Quality	:	Excellent chipping quality. Good boiling and baking quality.
Chief Market	:	Chipping
Remarks	:	Performs better under irrigation than dry land conditions in the Prairie Provinces. Yields from dry land production tend to be lower than for Norchip. Alberta has experienced poor chip color when chipped out of storage during the 1988-1989 crop years. Manitoba has had generally good chip quality from storage. Under certain conditions after cooking discoloration has been a problem.

MONONA

Parentage	:	B1268-46 x B1299-15
Breeder	:	Frito-Lay Inc. Texas, USA
Released	:	1964
Classification	:	Processing

DESCRIPTION

Tuber shape	:	Oblong to oval
eyes	:	Shallow to medium deep
skin	:	Smooth, buff
flesh	:	White
Plant	:	Medium, spreading with large white flowers

CHARACTERISTICS

Yield	:	Medium
Specific Gravity	:	Medium to low
Maturity	:	Mid-season
Resistances	:	PVY - moderately resistant PVA - resistant Verticillium wilt - moderately resistant
Susceptibilities	:	Blackleg - susceptible Fusarium tuber rot - moderately susceptible Potato leafroll virus - moderately susceptible
Storability	:	Good with good chip color, short dormancy
Consumer Quality	:	Good to excellent chipping quality out of long term storage
Chief Market	:	Chipping
Remarks	:	There is less interest in Monona in both Canada and the US due to its lower specific gravity and variable tuber shape.

MOURASKA (seedling # LP8058)

Parentage	:	Hudson x F59103
Breeder	:	Agriculture Canada, Research Station, Fredericton, New Brunswick. Selected by the Potato Breeding Program, La Pocatiere, Quebec.
Released	:	1990
Classification	:	Table and processing

DESCRIPTION

Tuber shape	:	Oblong
eyes	:	Very shallow
skin	:	Buff
flesh	:	White
Plant	:	Medium large with light blue flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	Low
Maturity	:	Medium early
Resistances	:	No known resistances
Consumer Quality	:	Good for boiling and chipping
Chief Market	:	Early fresh market and early chipping
Remarks	:	Seed is available from the Quebec Seed Farm

NIPIGON

Parentage	:	F53026 x F51043
Breeder	:	Agriculture Canada, Research Station, Fredericton, New Brunswick
Released	:	1977
Classification	:	Table

DESCRIPTION

Tuber shape	:	Oblong to ovoid
eyes	:	Shallow, faintly purple
skin	:	Buff, slightly flaked
flesh	:	White
Plant	:	Medium-large, upright with white flowers with pale yellowish-green base.

CHARACTERISTICS

Yield	:	Very high
Specific Gravity	:	High
Maturity	:	Late; tubers size early
Resistances	:	PVX - resistant PVY - resistant Blackleg - moderately resistant Rhizoctonia - moderately resistant Late blight - resistant to common races
Storability	:	Good
Consumer Quality	:	Good boiling and baking quality
Chief Market	:	Fresh market and seed to Ontario. Export seed potential.
Remarks	:	This variety is noted for very high yields over a wide range of environments.

NISKA (seedling # W848)

Parentage	:	Wischip x B5141-6
Breeder	:	University of Wisconsin, Rhinelander. Selected by the Prairie Potato Breeding Program.
Released	:	1990
Classification	:	Processing

DESCRIPTION

Tuber shape	:	Oval-oblong
eyes	:	Deep
skin	:	Buff
flesh	:	White
Plant	:	Medium large, semi-spreading with fairly abundant white flowers

CHARACTERISTICS

Yield	:	Medium
Specific Gravity	:	High
Maturity	:	Mid-season to late
Resistances	:	Early blight - moderately resistant Common scab - resistant Drought - tolerant PLRV - moderately resistant PVS - resistant PVY - moderately resistant
Susceptibilities	:	Late blight - susceptible
Storability	:	Good with 4-5 months dormancy
Consumer Quality	:	Excellent chipping from long term storage and good table quality
Chief Market	:	Chipping
Remarks	:	Stable yield and chip traits in Western Canada

NOOKSACK

Parentage	:	Kennebec x A501-13
Breeder	:	USDA, Washington State University and the Washington State Potato Commission, Prosser, Washington
Released	:	1973
Classification	:	Table and processing

DESCRIPTION

Tuber shape	:	Oblong
eyes	:	Shallow and few in number
skin	:	Russeted
flesh	:	White
Plant	:	Medium, upright with white flowers

CHARACTERISTICS

Yield	:	Medium
Specific Gravity	:	Very high
Maturity	:	Late
Resistances	:	Early blight - field resistant Late blight - good field resistant Net necrosis - resistant Common and deep-pitted scab - very resistant Rhizoctonia - moderately resistant Tuber jelly end rot - resistant Potato virus Y - field resistant Hollow heart and brown center - resistant Black spot and shatter bruise - resistant Second growth, knobs - very resistant
Susceptibilities	:	Stem end necrosis - susceptible Fusarium dry rot - susceptible
Storability	:	Good, very long dormancy
Consumer Quality	:	Good boiling and baking quality
Chief Market	:	Fresh market on the West Coast of North America
Remarks	:	High percentage of number ones

NORCHIP

Parentage	:	ND4631-1 x M5009-2
Breeder	:	North Dakota State University, Fargo, North Dakota
Released	:	1968
Classification	:	Processing

DESCRIPTION

Tuber shape	:	Round
eyes	:	Medium shallow
skin	:	Buff, smooth
flesh	:	White
Plant	:	Medium-large, upright with white flowers

CHARACTERISTICS

Yield	:	Medium
Specific Gravity	:	Medium-high
Maturity	:	Mid-season
Resistances	:	Common scab - resistant
Storability	:	Good
Consumer Quality	:	Excellent chipping quality
Chief Market	:	Chipping
Remarks	:	The standard of chip quality on the North American continent, however this variety is very intolerant of drought. Tubers set high in hill, therefore, a large hill should be formed early with a final hilling after tubers are set to avoid sunburn.

NORGOLD RUSSET

Parentage	:	A119-1 x ND2475-8
Breeder	:	North Dakota State University, Fargo, North Dakcta
Released	:	1964
Classification	:	Table

DESCRIPTION

Tuber shape	:	Oblong to long
eyes	:	Shallow, very well distributed
skin	:	Heavy netted, uniform russeting
flesh	:	White
Plant	:	Medium size, compact with pink flowers

CHARACTERISTICS

Yield	:	Medium
Specific Gravity	:	Medium
Maturity	:	Early
Resistances	:	Common scab - resistant
Susceptibilities	:	Hollow heart - very susceptible Early dying - susceptible
Consumer Quality	:	Good boiling and baking quality, producing a cooked product that is exceptionally white and mealy
Chief Market	:	Early fresh market
Remarks	:	Very resistant to Metribuzin injury. Very intolerant of drought conditions. Hollow heart can be a serious problem in Eastern Canada.

NORLAND

Parentage	:	ND626 x RedKote
Breeder	:	North Dakota State University, Fargo, North Dakota
Released	:	1957
Classification	:	Table

DESCRIPTION

Tuber shape	:	Medium oblong
eyes	:	Shallow
skin	:	Smooth, red
flesh	:	White
Plant	:	Medium large, spreading with purple flowers

CHARACTERISTICS

Yield	:	High in North Dakota, but variable in Atlantic Canada
Specific Gravity	:	Medium
Maturity	:	Early mid-season
Resistances	:	Common scab - moderately resistant PVA - highly resistant PVY - moderately resistant PLRV - moderately resistant Wart - resistant
Storability	:	Good
Consumer Quality	:	Fair cooking quality
Chief Market	:	Early fresh market and home gardens
Remarks	:	Avoid the herbicide Metribuzin Postemergence. Select clones with a darker red color, exist in the US.

NORWIS (formerly FL 657)

Parentage	:	RD289-18 x Monona
Breeder	:	Frito-Lay, Inc.
Released	:	1986
Classification	:	Processing

DESCRIPTION

Tuber shape	:	Flattish, blocky oval
eyes	:	Medium shallow
skin	:	Buff
flesh	:	Very pale yellow
Plant	:	Medium large with white flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	Medium
Maturity	:	Mid-season
Resistances	:	Most virus diseases - resistant (field resistant) Southern bacterial wilt - tolerant Basal leaf-speckling syndrome - very resistant
Susceptibilities	:	Common scab - susceptible
Storability	:	Good
Consumer Quality	:	Excellent chipping and table quality
Chief Market	:	Chipping
Remarks	:	Good chip color from 50° F storage

ONAWAY

Parentage	:	USDA 96-56 x Katahdin
Breeder	:	USDA and Michigan State University
Released	:	1956
Classification	:	Table

DESCRIPTION

Tuber shape	:	Round
eyes	:	Medium deep
skin	:	Slightly flaked when mature, buff
flesh	:	White
Plant	:	Medium to large, upright with small pink reddish flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	Medium
Maturity	:	Early
Resistances	:	Common scab - resistant Late blight - resistant PVA - very resistant
Susceptibilities	:	Verticillium wilt - susceptible Early blight - susceptible
Consumer Quality	:	Acceptable table quality
Chief Market	:	Early fresh market in Ontario

PINK PEARL

Parentage	: Ultimus x Katahdin
Breeder	: Agriculture Canada, Research Station, St. John's, Newfoundland
Released	: 1969
Classification	: Table

DESCRIPTION

Tuber shape	: Oval
eyes	: Shallow
skin	: Pink
flesh	: White
Plant	: Medium, large, upright, with pink flowers

CHARACTERISTICS

Yield	: High
Specific Gravity	: Medium
Maturity	: Late
Resistances	: Wart - resistant Late blight - moderately resistant Blackleg - moderately resistant
Susceptibilities	: Golden nematode - susceptible Common scab - susceptible
Storability	: Keeps well
Consumer Quality	: Good cooking quality
Chief Market	: Fresh market
Remarks	: Space 14 to 16 inches in the row because of high tuber set

PUNGO

Parentage	: X96-44 x X528-170
Breeder	: USDA Beltsville, Maryland and Virginia Truck Experiment Station
Released	: 1950
Classification	: Table and processing

DESCRIPTION

Tuber shape	: Round
eyes	: Medium deep
skin	: Flaked, buff
flesh	: White
Plant	: Large, spreading with white flowers

CHARACTERISTICS

Yield	: High
Specific Gravity	: High
Maturity	: Mid-season
Resistances	: Late blight - resistant to race 1 Common scab - resistant PVA - highly resistant Fusarium storage rot - resistant
Storability	: Poor
Consumer Quality	: Good boiling and chipping quality
Chief Market	: Export seed to Virginia, USA

PURPLE CHIEF

Parentage	:	Unknown
Breeder	:	Unknown
Released	:	Unknown
Classification	:	Table

DESCRIPTION

Tuber shape	:	Long oval
eyes	:	Medium
skin	:	Purple
flesh	:	White
Plant	:	Medium large with reddish purple flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	High
Maturity	:	Mid-season
Susceptibilities	:	Late blight - susceptible
Storability	:	Good
Consumer Quality	:	Good cooking quality
Chief Market	:	Home garden in coastal areas of Atlantic Canada

RARITAN

Parentage	:	F4519 x 834C(29)
Breeder	:	Agriculture Canada, Research Station, Fredericton, New Brunswick. Named and released by Rutgers University, New Brunswick, New Jersey
Released	:	1970
Classification	:	Table

DESCRIPTION

Tuber shape	:	Oblong to round
eyes	:	Shallow
skin	:	Netted
flesh	:	White
Plant	:	Large, compact, vigorous, upright growth with white flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	Very high even under warm soil conditions
Maturity	:	Mid-season to late
Resistances	:	PVX - moderately resistant PVA - moderately resistant Verticillium wilt - moderately resistant Late blight - resistant to race 1 Heat - tolerant
Susceptibilities	:	Common scab - highly susceptible
Storability	:	Short dormancy
Consumer Quality	:	Good boiled and baked, good for chipping
Chief Market	:	Fresh market and seed export
Remarks	:	Valuable variety for warm countries with two growing seasons per year.

RED GOLD

Parentage	:	G68211 x G6521-4RY
Breeder	:	Agriculture Canada, The University of Guelph and The Ontario Ministry of Agriculture and Food, Guelph, Ontario
Released	:	1987
Classification	:	Seed export, domestic table

DESCRIPTION

Tuber shape	:	Round
eyes	:	Shallow
skin	:	Medium-red
flesh	:	Bright yellow
Plant	:	Medium large with small dark purple flowers

CHARACTERISTICS

Yield	:	Medium
Specific Gravity	:	Medium
Maturity	:	Early to mid-season
Resistances	:	PLRV - moderately resistant Common scab - moderately resistant
Susceptibilities	:	PVA - moderately susceptible
Storability	:	Short dormancy
Consumer Quality	:	Good boiling and baking quality, moist flesh texture
Chief Market	:	Export seed and domestic table
Remarks	:	Tuber set is high with tuber size being medium to medium-small. First red-skinned, yellow-fleshed variety bred in Canada. Space at 10 inches.

RED LA SODA

Parentage	:	Mutation of La Soda (Triumph x Katahdin)
Breeder	:	Louisiana Agricultural Experiment Station, Baton Rouge, Louisiana
Released	:	Around 1952
Classification	:	Table

DESCRIPTION

Tuber shape	:	Round to oval
eyes	:	Medium in depth
skin	:	A bright deep red
flesh	:	White
Plant	:	Medium and spreading with large, lavender flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	Medium
Maturity	:	Mid-season
Resistances	:	Heat and drought - tolerant Early blight - moderately resistant
Susceptibilities	:	Hollow heart - slightly susceptible Growth cracks - slightly susceptible
Storability	:	Good with medium dormancy
Consumer Quality	:	Fair boiled and baked
Chief Market	:	Export seed to the Southern United States
Remarks	:	Wide adaptation, grows well in both Northern and Southern areas

RED PONTIAC

Parentage	:	Mutation of Pontiac (Triumph x Katahdin)
Breeder	:	USDA and Michigan Agricultural Experiment Station, J.W. Weston, Coral Gables, Florida selected the Red Mutation
Released	:	1954
Classification	:	Seed export

DESCRIPTION

Tuber shape	:	Oblong to round
eyes	:	Medium deep
skin	:	Dark red, smooth or sometimes netted
flesh	:	White
Plant	:	Large and spreading, light purple flowers with white tips

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	Medium
Maturity	:	Mid-season
Resistances	:	Drought - tolerant
Susceptibilities	:	PVY - susceptible Bruising - susceptible Common scab - susceptible
Storability	:	Good with a medium dormancy
Consumer Quality	:	Fair boiling and baking quality
Chief Market	:	Our most popular red-skinned variety world wide
Remarks	:	Space at 6 inches for seed export

REDSEN

Parentage	:	ND8978-3R x ND9403-20R
Breeder	:	North Dakota State University, Fargo, North Dakota
Released	:	1983
Classification	:	Table

DESCRIPTION

Tuber shape	:	Round to oblong
eyes	:	Shallow
skin	:	Bright red
flesh	:	White
Plant	:	Medium to large, upright with lavender flowers

CHARACTERISTICS

Yield	:	Medium
Specific Gravity	:	Medium
Maturity	:	Medium early
Resistances	:	Late blight - resistant to race 0 Silver scarf - moderately resistant to some strains Common scab - moderately resistant
Susceptibilities	:	Fusarium dry rot - moderately susceptible Bruising - moderately susceptible
Storability	:	Short dormancy, retains red skin color
Consumer Quality	:	Fair boiling, excellent baking, good to fair chip color
Chief Market	:	Fresh market
Remarks	:	Handle careful to avoid bruising during harvesting and storing. Thiabendazole should be applied at time of storing. Avoid the herbicide metribuzin postemergence. Plant well suberized seed in warm soil and cover lightly to avoid seed piece decay.

RHINERED

Parentage	:	W639 x Norchief
Breeder	:	University of Wisconsin, Madison, Wisconsin
Released	:	1981
Classification	:	Table

DESCRIPTION

Tuber shape	:	Round
eyes	:	Shallow
skin	:	Smooth, red in color
flesh	:	White
Plant	:	Medium size, light red flowers

CHARACTERISTICS

Yield	:	Medium high
Specific Gravity	:	Medium high
Maturity	:	Mid-season
Resistances	:	Common scab - highly resistant Verticillium wilt - resistant
Consumer Quality	:	Excellent boiling and baking quality
Chief Market	:	Fresh market
Remarks	:	High percentage of number ones. Low set. Space at 6 inches for seed production.

RIDEAU

Parentage	:	Viking x P177-13R
Breeder	:	Agriculture Canada, The University of Guelph and The Ontario Ministry of Agriculture and Food, Guelph, Ontario
Released	:	1979
Classification	:	Table and seed export potential

DESCRIPTION

Tuber shape	:	Round
eyes	:	Shallow
skin	:	Bright red, smooth
flesh	:	White
Plant	:	Large, upright, slightly spreading with pale violet blue flowers few in number

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	Medium
Maturity	:	Late
Resistances	:	Verticillium wilt - highly resistant Common scab - moderately resistant PVA - moderately resistant PVY - moderately resistant PVX - moderately resistant PLRV - moderately resistant
Storability	:	Good
Consumer Quality	:	Excellent for boiling and good for baking
Chief Market	:	Fresh market

ROSE GOLD

Parentage	:	Abnaki x G6521-4RY
Breeder	:	Agriculture Canada, The University of Guelph and The Ontario Ministry of Agriculture and Food, Guelph, Ontario
Released	:	1987
Classification	:	Domestic table, seed export

DESCRIPTION

Tuber shape	:	Round
eyes	:	Medium depth
skin	:	Pinkish red
flesh	:	Bright yellow
Plant	:	Medium large, upright with reddish purple flowers

CHARACTERISTICS

Yield	:	Medium
Specific Gravity	:	Medium
Maturity	:	Medium late
Resistances	:	Common scab - moderately resistant
Storability	:	Short dormancy
Consumer Quality	:	Acceptable boiling and baking, moist flesh texture
Chief Market	:	Domestic table market, potential seed export
Remarks	:	Medium to large tubers

RUSSET BURBANK

Parentage	:	A mutant of Burbank (seed ball from Early Rose)
Breeder	:	Luther Burbank (Lon D. Sweet selected the Russeted mutation)
Released	:	1874
Classification	:	Table and processing

DESCRIPTION

Tuber shape	:	Long
eyes	:	Shallow, numerous and well distributed
skin	:	Russeted and heavily netted
flesh	:	White
Plant	:	Medium size and spreading with few white flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	High
Maturity	:	Very late
Resistances	:	Common scab - resistant Blackleg - highly resistant Fusarium storage rot - resistant
Susceptibilities	:	PVY - highly susceptible
Storability	:	Good
Consumer Quality	:	Good boiling and excellent baking and french fry quality
Chief Market	:	Fresh market for the count carton trade and the manufacture of french fries
Remarks	:	Heavy set; space at 12 to 14 inches for seed and 14 to 16 inches for table and processing. Need regular moisture supply to avoid second growth. The standard of french fry quality on the North American continent.

RUSSET NORKOTAH

Parentage	:	ND9526-4 Russ x ND9687-5 Russ
Breeder	:	North Dakota State University, Fargo, North Dakota
Released	:	1987
Classification	:	Table

DESCRIPTION

Tuber shape	:	Long and very smooth
eyes	:	Shallow, golden bright, fairly numerous
skin	:	Heavy, dark, beautiful russeted and netted
flesh	:	White
Plant	:	Medium, full vine with white flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	Medium
Maturity	:	Mid-season. Sets tubers early in season.
Resistances	:	Columbia root-knot nematode - resistant Common scab - resistant Hollow heart - not a problem
Susceptibilities	:	Verticillium - highly susceptible Leaf roll - susceptible Late blight - susceptible Early blight - susceptible PVY - does not show typical mosaic symptoms - can serve as a symptomless source
Storability	:	Good with medium dormancy
Consumer Quality	:	Good for baking and poor to moderate for boiling
Chief Market	:	Count carton trade as a baker
Remarks	:	Under certain conditions after-cooking darkening has been observed in New Brunswick. Space for count production 12-13 inches.

RUSSETTE

Parentage	:	B5141-6 x W245-2
Breeder	:	USDA, Florida and New Jersey Agricultural Experiment Stations
Released	:	1980
Classification	:	Table and processing

DESCRIPTION

Tuber shape	:	Oblong
eyes	:	Shallow, well distributed over tuber
skin	:	Russeted
flesh	:	White
Plant	:	Large, sturdy, upright with a moderate number of white flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	High
Maturity	:	Late
Resistances	:	PVA - immune Net necrosis - immune Heat necrosis - highly resistant Common scab - good tolerance Pinkeye - highly resistant Rhizoctonia - good tolerance Late blight - resistant to race 0 Verticillium wilt - highly resistant Early blight - resistant to foliar phase
Susceptibilities	:	Hollow heart - highly susceptible PVY - susceptible PLRV - susceptible Growth cracks may develop following moisture stress
Storability	:	Good, very long tuber dormancy
Consumer Quality	:	Baking quality outstanding, excellent french fry quality at harvest and after above 50° F storage
Chief Market	:	Fresh for count carton trade as a baker
Remarks	:	Its long rest period enables storage for long periods at 55° F or higher before chemical sprout inhibitor is required. Emergence may be delayed by as much as two weeks due to long tuber dormancy, however, vine growth is vigorous following emergence.

SABLE

Parentage	:	F52094 x F47024
Breeder	:	Agriculture Canada, Research Station, Fredericton, New Brunswick
Released	:	1964
Classification	:	Table

DESCRIPTION

Tuber shape	:	Elliptical to oblong
eyes	:	Shallow
skin	:	Smooth, buff
flesh	:	White
Plant	:	Small, compact, erect with light purple flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	Low
Maturity	:	Early
Resistances	:	Late blight - resistant to race 1 Common scab - moderately resistant
Consumer Quality	:	Fair boiling quality
Chief Market	:	Early fresh market

SAGINAW GOLD

Parentage	:	MS 321-38 x MS 709
Breeder	:	Michigan State University, East Lansing, Michigan, selected at Guelph, Ontario
Released	:	1986 Temporary license in Canada. A joint release between Michigan State University and the Potato Breeding Program at Guelph, Ontario
Classification	:	Processing

DESCRIPTION

Tuber shape	:	Oval
eyes	:	Shallow and numerous
skin	:	Creamy yellow, smooth
flesh	:	Pale yellow
Plant	:	Medium large, semi-spreading with small whitish-cream flowers

CHARACTERISTICS

Yield	:	Medium
Specific Gravity	:	High
Maturity	:	Medium-late
Resistances	:	Hollow heart - resistant PLRV - good resistance PVX - good resistance PVY - good resistance
Susceptibilities	:	Common scab - susceptible
Storability	:	Good. Best chip color obtained from 50-52° F storage
Consumer Quality	:	Excellent chipping quality and good boiling and baking quality
Chief Market	:	Chipping and table

SANGRE

Parentage	:	Viking x A6356-9
Breeder	:	Colorado State University, University of Idaho and the USDA
Released	:	1982
Classification	:	Table

DESCRIPTION

Tuber shape	:	Oval to oblong
eyes	:	Shallow
skin	:	Smooth, thick, deep red
flesh	:	White
Plant	:	Medium large, spreading, few lavender flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	Medium
Maturity	:	Mid-season
Resistances	:	Net necrosis - resistant Hollow heart - resistant Internal discoloration - resistant Black spot - resistant Early blight tuber rot - moderately resistant After cooking darkening - resistant
Susceptibilities	:	Early blight - susceptible Late blight - susceptible Verticillium - susceptible Dry rot - moderately susceptible Bacterial soft rot - moderately susceptible
Storability	:	Good with retention of red skin color better than most reds
Consumer Quality	:	Excellent boiling and baking quality
Chief Market	:	Fresh market
Remarks	:	A high quality red for the fresh market with slow emergence

SEBAGO

Parentage	:	Chippewa x Katahdin
Breeder	:	USDA, Presque Isle, Maine
Released	:	1938
Classification	:	Seed export

DESCRIPTION

Tuber shape	:	Round
eyes	:	Shallow
skin	:	Smooth, buff
flesh	:	White
Plant	:	Large, erect to spreading, reddish purple flowers that bloom all season until vine desiccation

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	Medium
Maturity	:	Very late
Resistances	:	PVA - highly resistant PVY - moderately resistant PVX - moderately resistant Yellow dwarf - resistant Late blight - moderately field resistant Early blight - moderately resistant Tuber net necrosis - resistant Common scab - moderately resistant Wart - resistant
Susceptibilities	:	Blackleg - highly susceptible
Storability	:	Short dormancy
Consumer Quality	:	Fair to good depending on maturity
Chief Market	:	A traditional favourite in several of our overseas markets as well as for chipping and table use in the Hastings area, Florida

SHEPODY

Parentage	:	Bake King x F58050
Breeder	:	Agriculture Canada, Research Station, Fredericton, New Brunswick
Released	:	1980
Classification	:	Processing and table

DESCRIPTION

Tuber shape	:	Long
eyes	:	Medium shallow
skin	:	Buff, smooth, some light netting
flesh	:	White
Plant	:	Medium size and spreading, light violet flowers with orange-green star and white acumens

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	High
Maturity	:	Mid-season
Resistances	:	Rhizoctonia - moderately resistant Phoma storage rot - moderately resistant Verticillium wilt - moderately resistant to seed piece transmission Net necrosis - moderately resistant
Susceptibilities	:	PVY - highly susceptible Common scab - susceptible
Storability	:	Good- needs through-the-pile ventilation
Consumer Quality	:	Excellent french fry quality. Very good for baking and boiling
Chief Market	:	A mid-season french frying cultivar with potential for count carton trade and all-season processing.
Remarks	:	Produces a good grade of large tubers with few culls. Good resistance to second growth. Space at 10-12 inches for processing. Space at 8 inches for seed. Nitrogen recommendations - early harvest 100-115 pounds per acre; fall harvest 120-135 pounds per acre.

SIMCOE

Parentage	:	Peconic x B5141-6
Breeder	:	Agriculture Canada, The University of Guelph and The Ontario Ministry of Agriculture and Food, Guelph, Ontario
Released	:	1981
Classification	:	Table and processing

DESCRIPTION

Tuber shape	:	Round and slightly flattened
eyes	:	Shallow
skin	:	Light buff, smooth to lightly flaked
flesh	:	White
Plant	:	Medium, spreading with white flowers

CHARACTERISTICS

Yield	:	Medium
Specific Gravity	:	High
Maturity	:	Late
Resistances	:	Mild mosaic - highly resistant Late blight - resistant to common races Common scab - moderately resistant Net necrosis - resistant Golden nematode - highly resistant
Storability	:	Good. Medium to long dormancy
Consumer Quality	:	Excellent boiling, baking and chipping quality
Chief Market	:	Chipping from storage and main crop table
Remarks	:	Grown in Ontario as a chipper

SOMERSET

Parentage	:	B6097-9 x B6516-5
Breeder	:	The Maine Agricultural Experiment Station, University of Maine, Orono, Maine
Released	:	1988
Classification	:	Processing

DESCRIPTION

Tuber shape	:	Medium
eyes	:	Shallow, poor distribution near stem-end
skin	:	Buff
flesh	:	White
Plant	:	Medium, spreading with lavender flowers

CHARACTERISTICS

Yield	:	Medium
Specific Gravity	:	Medium-high
Maturity	:	Mid-season. Tubers size rapidly
Resistances	:	Late blight - highly resistant Early blight - highly resistant Net necrosis - highly resistant
Susceptibilities	:	Sun greening - highly susceptible Common scab - susceptible Hollow heart - susceptible PLRV - susceptible PVY - susceptible Bruising - moderately susceptible
Storability	:	Good. Medium dormancy.
Consumer Quality	:	Excellent chipping. Good boiling and baking quality
Chief Market	:	Chipping
Remarks	:	Low tuber set. Space at 8-9 inches for table and 6-7 inches for seed. Do not exceed 90-120 pounds per acre of nitrogen. Tubers set shallow; therefore a good hill is required to avoid sunburning.

SUNRISE

Parentage	:	Wauseon x B6563-2
Breeder	:	The Maine Agricultural Experiment Station, University of Maine, Orono, Maine and The Campbell Institute for Research and Technology, Camden, New Jersey
Released	:	1984
Classification	:	Table

DESCRIPTION

Tuber shape	:	Round to oblong, moderately smooth
eyes	:	Medium-shallow, well distributed over the tuber
skin	:	Buff, netted
flesh	:	White
Plant	:	Medium large, spreading with large dark lavender-red flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	High
Maturity	:	Medium-early. Tubers bulk rapidly
Resistances	:	Golden nematode - resistant to race A PVX - resistant Net necrosis - resistant Common scab - some resistance Wart - highly resistant Greening - good tolerance
Susceptibilities	:	Verticillium wilt - susceptible Acid scab - susceptible Late blight - susceptible Early blight - susceptible PVY - susceptible
Storability	:	Good, susceptible to pressure bruising
Consumer Quality	:	Good cooking and chipping quality from field and warm storage. Does not recondition.
Chief Market	:	Early fresh market
Remarks	:	Space at 10 inches for table and closer spacing for chipping and seed.

SUPERIOR

Parentage	:	B96-56 x M59.44
Breeder	:	University of Wisconsin, Madison, Wisconsin
Released	:	1961
Classification	:	Table and processing

DESCRIPTION

Tuber shape	:	Round
eyes	:	Medium shallow
skin	:	Buff, light flaky russet
flesh	:	White
Plant	:	Medium size with small leaflets and upright growth, pale lilac flowers with white tips

CHARACTERISTICS

Yield	:	Medium
Specific Gravity	:	Medium
Maturity	:	Early mid-season
Resistances	:	Common scab - moderately resistant
Susceptibilities	:	Late blight - highly susceptible PVY - highly susceptible Verticillium wilt - highly susceptible
Storability	:	Fair, short dormancy
Consumer Quality	:	Excellent chipping quality from field and good cooking quality early in season
Chief Market	:	Early fresh market and chipping

TOBIQUE

Parentage	:	F45019 x Cariboo
Breeder	:	Agriculture Canada, Research Station, Fredericton, New Brunswick
Released	:	1976
Classification	:	Table and processing

DESCRIPTION

Tuber shape	:	Oblong
eyes	:	Moderately shallow
skin	:	Golden tan with pink splashing
flesh	:	White
Plant	:	Medium size, upright with reddish purple flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	Medium
Maturity	:	Early
Resistances	:	Verticillium wilt - moderately resistant Fusarium storage rot - moderately resistant Net necrosis - resistant
Susceptibilities	:	Does not tolerate the herbicide Metribuzin. Do not use Sencor or Lexone
Storability	:	Good
Consumer Quality	:	Excellent for boiling, baking and chipping
Chief Market	:	Early chipping

TRENT

Parentage	:	B5141-6 x Nordak
Breeder	:	Agriculture Canada, The University of Guelph and The Ontario Ministry of Agriculture and Food, Guelph, Ontario
Released	:	1978
Classification	:	Table and processing

DESCRIPTION

Tuber shape	:	Round to oblong
eyes	:	Shallow
skin	:	Buff, slightly flaked to lightly netted
flesh	:	White
Plant	:	Medium, upright, spreading with light purple flowers

CHARACTERISTICS

Yield	:	Medium
Specific Gravity	:	High
Maturity	:	Mid-season
Resistances	:	PVY - field resistant Late blight - moderately resistant Common scab - moderately resistant Net necrosis - moderately resistant
Susceptibilities	:	Mild mosaic - susceptible
Storability	:	Good
Consumer Quality	:	Very good for boiling, baking and chipping
Chief Market	:	Fresh market and chipping
Remarks	:	Grown in Quebec and Ontario as a chipper. Plants tend to die early regardless of cultural practices.

VIKING

Parentage	:	Redskin x Nordak
Breeder	:	North Dakota State University, Fargo, North Dakota
Released	:	1963
Classification	:	Table

DESCRIPTION

Tuber shape	:	Round, oblong
eyes	:	Shallow, well distributed
skin	:	Smooth red
flesh	:	Extremely white
Plant	:	Medium size, upright with light pink flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	Medium
Maturity	:	Mid-season. Tubers size early.
Resistances	:	Common scab - resistant Drought - tolerant
Consumer Quality	:	Excellent boiling and good baking quality
Chief Market	:	Early fresh market
Remarks	:	Export seed to Cuba. Low set of large size tubers. Space at 6-8 inches to avoid oversize.

WARBA

Parentage : Bliss Triumph x Minn, Na 4-16
Breeder : University of Minnesota, St. Paul, Minnesota
Released : 1933
Classification : Table

DESCRIPTION

Tuber shape : Round
eyes : Medium deep, pink
skin : Smooth, buff, red around the eyes
flesh : White
Plant : Medium size, upright, compact with few light lavender flowers

CHARACTERISTICS

Yield : High
Specific Gravity : Low
Maturity : Very early
Resistances : PVA - highly resistant
Susceptibilities : Common scab - susceptible
Late blight - susceptible
Consumer Quality : Good boiling and baking
Chief Market : Early fresh market

WAUSEON

Parentage : USDA B5149-8 x Katahdin
Breeder : USDA and Agricultural Experiment Station of New York
Released : 1967
Classification : Table and processing

DESCRIPTION

Tuber shape : Round to oblong
eyes : Medium deep
skin : Smooth, buff
flesh : White
Plant : Medium large, upright with large light violet flowers on high peduncles above foliage.

CHARACTERISTICS

Yield : High
Specific Gravity : Medium
Maturity : Medium late
Resistances : Golden nematode - resistant to race A
Common scab - highly resistant
PVA - highly resistant
PVX - highly resistant
Tuber necrosis - highly resistant
Late blight - highly resistant
Storability : Good
Consumer Quality : Good boiling and baking, acceptable chip quality
Chief Market : Fresh market

WHITE ROSE

Parentage	:	A seed ball from the Jackson variety
Breeder	:	Mrs. Rachel Chapman, New York State
Released	:	1893
Classification	:	Table

DESCRIPTION

Tuber shape	:	Long
eyes	:	Numerous, medium deep
skin	:	Smooth, buff
flesh	:	White
Plant	:	Large, spreading with large white flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	High
Maturity	:	Mid-season
Storability	:	Good
Consumer Quality	:	Good boiling and baking
Chief Market	:	Fresh market in irrigated areas
Remarks	:	Grown in California for the fresh market. Less popular in recent years.

YANKEE CHIPPER

Parentage	:	B6987-148 x BR6864-8
Breeder	:	Maine Agricultural Experiment Station, University of Maine, Orono, Maine
Released	:	1983
Classification	:	Processing and table

DESCRIPTION

Tuber shape	:	Round to oblong
eyes	:	Shallow, well distributed over the tuber
skin	:	Buff, smooth, thin
flesh	:	White
Plant	:	Moderately large, spreading, good vigor, large lavender-blue flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	High
Maturity	:	Medium late
Resistances	:	Golden nematode - resistant PVX - resistant Net necrosis - resistant Rhizoctonia - moderately resistant Hollow heart - tolerant
Susceptibilities	:	Bruising - moderately susceptible Greening - moderately susceptible Fusarium - very susceptible Common scab - susceptible
Storability	:	Fair, short dormancy
Consumer Quality	:	Very good chipping and good cooking quality
Chief Market	:	Chipping
Remarks	:	This cultivar gives smaller tuber size with less marketable yield and lower chip yields. Blisters occur in chips made from this variety under certain conditions. Preliminary information indicates that a 10" seed spacing gives the best size distribution and that maximum yields will be obtained with moderate applications of nitrogen.

YUKON GOLD

Parentage	:	W5279-4 x Norgleam
Breeder	:	Agriculture Canada, The University of Guelph and The Ontario Ministry of Agriculture and Food, Guelph, Ontario
Released	:	1980
Classification	:	Table

DESCRIPTION

Tuber shape	:	Oval
eyes	:	Shallow, pink
skin	:	Yellowish-Buff, finely flaked
flesh	:	Light yellow
Plant	:	Medium large, upright with light violet flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	High
Maturity	:	Mid-season
Resistances	:	PVA - highly resistant Leaf roll - moderately resistant
Susceptibilities	:	Common scab - susceptible
Storability	:	Excellent with long dormancy
Consumer Quality	:	Very good boiling and baking quality
Chief Market	:	Fresh market and export seed potential
Remarks	:	A promising variety because of its attractive tuber appearance and yellow flesh. Often sold by variety name. Trade name, Golden Bake in the United States. A popular variety in Canada, Michigan and California.

PART II

POTATO VARIETIES AND ADVANCED SELECTIONS FOR OBSERVATION

A7411-2

Parentage	:	Butte x A6595-3
Breeder	:	USDA, University of Idaho, Colorado State University and Oregon State University
Released	:	Pending
Classification	:	Processing and table

DESCRIPTION

Tuber shape	:	Long
eyes	:	Medium deep
skin	:	Medium russeted
flesh	:	White
Plant	:	Medium large with red-purple flowers that are moderately abundant in number

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	High
Maturity	:	Very late
Resistances	:	Sugar end - highly resistant Early dying - moderately resistant PVX - good resistance PVY - good resistance Hollow heart - highly resistant
Susceptibilities	:	Common scab - susceptible
Storability	:	Good
Consumer Quality	:	Excellent french fry and baking quality
Chief Market	:	Manufacture of french fries
Remarks	:	This variety should be grown in areas where sugar-end is a problem as it is highly resistant to this condition. Some off-type tubers were observed in New Brunswick during one year of trials.

AF875-16

Parentage	:	AF186-2 x AF84-4
Breeder	:	The Maine Agricultural Experiment Station, University of Maine, Orono, Maine
Released	:	Not released
Classification	:	Processing-chipping

DESCRIPTION

Tuber shape	:	Round
eyes	:	Shallow
skin	:	Buff
flesh	:	White
Plant	:	Medium large and spreading with white flowers

CHARACTERISTICS

Yield	:	Medium high
Specific Gravity	:	Very high
Maturity	:	Mid-season
Resistances	:	Net necrosis - resistant Heat necrosis - resistant Verticillium wilt - moderately resistant
Storability	:	Moderate
Consumer Quality	:	Excellent chipping and good boiling quality
Chief Market	:	Chipping
Remarks	:	Space at 8 inches

AGASSIZ

Parentage	:	MN321.64-11 x MN305.64-11
Breeder	:	University of Minnesota, St. Paul, Minnesota
Released	:	1983
Classification	:	Table

DESCRIPTION

Tuber shape	:	Oval
eyes	:	Shallow
skin	:	Russeted
flesh	:	White
Plant	:	Medium large with light purple flowers

CHARACTERISTICS

Yield	:	Medium
Specific Gravity	:	Medium
Maturity	:	Late
Resistances	:	Common scab - highly resistant Hollow heart - resistant
Susceptibilities	:	Late blight - susceptible Verticillium wilt - susceptible
Storability	:	Excellent
Consumer Quality	:	Excellent boiling, baking and chipping quality
Chief Market	:	Fresh market as a baker
Remarks	:	Heavy tuber set

ALLEGANY (seedling # NY72)

Parentage	:	M297-17 x bulk of golden nematode susceptible clones
Breeder	:	Cornell University, Ithaca, New York
Released	:	1989
Classification	:	Processing and table

DESCRIPTION

Tuber shape	:	Round
eyes	:	Medium shallow
skin	:	Buff, netted
flesh	:	White
Plant	:	Medium large, vigorous. Purple flowers with white tips. Few seed balls.

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	Medium
Maturity	:	Late
Resistances	:	Golden nematode - resistant Early blight - very resistant Verticillium wilt - moderately resistant Scab - moderately resistant Late blight - moderately resistant
Susceptibilities	:	Wart - susceptible Shatter bruising - susceptible
Storability	:	Good. Very long tuber dormancy
Consumer Quality	:	Good chipping quality from field and 50° storage. Good boiling and baking quality with good flavor and mealy texture.
Chief Market	:	Fresh
Remarks	:	Few internal defects or pickouts. Plant early for maximum yield. Warm seed briefly before planting.

BISON

Parentage	:	ND5124-IR x ND4652-4R
Breeder	:	North Dakota State University, Fargo, North Dakota
Released	:	1974
Classification	:	Table

DESCRIPTION

Tuber shape	:	Round
eyes	:	Shallow
skin	:	Bright red, smooth to slightly flaky
flesh	:	White
Plant	:	Medium to small, upright with purple flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	Medium
Maturity	:	Mid-season
Resistances	:	Common scab - moderately resistant Late blight - resistant to race 0
Susceptibilities	:	Verticillium wilt - susceptible
Consumer Quality	:	Excellent for boiling and fair for baking and chipping
Chief Market	:	Export seed potential

CALGOLD

Parentage	:	Butte x A6680-5
Breeder	:	USDA, University of California and University of Idaho
Released	:	1986
Classification	:	Table

DESCRIPTION

Tuber shape	:	Oblong to long
eyes	:	Shallow
skin	:	Lightly russeted
flesh	:	White
Plant	:	Medium large, upright to spreading with good vigor. Light purple flowers.

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	Low
Maturity	:	Late
Resistances	:	Common scab - moderately resistant Verticillium wilt - moderately resistant Early blight - moderately resistant Speckle leaf - resistant
Susceptibilities	:	Hollow heart - extremely susceptible Internal browning - slightly susceptible Black spot - slightly susceptible
Storability	:	Dormancy is medium. Will store for 4-6 months.
Consumer Quality	:	Good boiling quality
Chief Market	:	Fresh market
Remarks	:	Possible replacement for Centennial Russet and Norgold Russet

CAL-ORE

Parentage	:	Mutation of Calgold (Butte x A6680-5)
Breeder	:	USDA, Aberdeen, ID and University of Idaho. Albert Fradkin, California, Oregon Seed Inc. selected the heavy net mutation
Released	:	Exclusively licensed to Plant Genetics, Inc., Davis, CA. Patent pending at US Patent & Trademark Office on variety
Classification	:	Table and processing

DESCRIPTION

Tuber shape	:	Oblong to blocky, very uniform
eyes	:	Shallow, well distributed
skin	:	Dark russeted, smooth, good net
flesh	:	White to yellowish
Plant	:	Medium, upright, white flowers

CHARACTERISTICS

Yield	:	Medium
Specific Gravity	:	Very high
Maturity	:	Medium, two weeks later than Russet Norkotah
Resistances	:	Early blight - more resistant than Russet Norkotah Early dying - more resistant than Russet Norkotah Silver scurf - resistant
Susceptibilities	:	PVY - moderately susceptible Hollow heart - moderately susceptible
Storability	:	Stores well
Consumer Quality	:	Excellent baking, boiling and french fry quality; very attractive tuber shape, netting and smoothness
Chief Market	:	Fresh market
Remarks	:	Cal-Ore is a patent pending variety. For further info contact - Plant Genetics, Inc. A Calgene Company, 1920 Fifth Street, Davis, California, USA 95616 (916-753-1400) Fax 916-753-6199.

CASCADE

Parentage	: USDA B3820-14 x P1214372
Breeder	: USDA; Washington State University and The Washington State Potato Commission, Prosser, Washington
Released	: 1969
Classification	: Processing

DESCRIPTION

Tuber shape	: Oblong
eyes	: Shallow and few in number
skin	: White, smooth
flesh	: White
Plant	: Medium, spreading with light lavender flowers fading to white

CHARACTERISTICS

Yield	: High
Specific Gravity	: Medium
Maturity	: Mid-season
Resistances	: PLRV - resistant Net necrosis - resistant Verticillium wilt - some resistance Hollow heart - tolerant Heat necrosis - tolerant Growth cracks - low incidence Blackleg - moderately resistant Powdery mildew - moderately resistant
Susceptibilities	: Fusarium dry rot - very susceptible Common scab - very susceptible
Storability	: Fair, except for Fusarium rot. Short dormancy
Consumer Quality	: Good for the manufacture of french fries and chips directly from the field.
Chief Market	: French fries directly from the field at early harvest.

CENTENNIAL RUSSET

Parentage	: W12-3 X Nooksack
Breeder	: Colorado State University and the USDA
Released	: 1976
Classification	: Table

DESCRIPTION

Tuber shape	: Oblong
eyes	: Shallow, sparse at stem end
skin	: Heavy russeted, thick
flesh	: White
Plant	: Medium to large, upright with many large lavender flowers

CHARACTERISTICS

Yield	: Medium
Specific Gravity	: Medium
Maturity	: Mid-season
Resistances	: Verticillium wilt - moderately resistant Early blight - moderately resistant Rhizoctonia - moderately resistant Fusarium dry rot - moderately resistant
Susceptibilities	: Common scab - susceptible PLRV - susceptible
Storability	: Good with long dormancy
Consumer Quality	: Excellent boiling and baking quality
Chief Market	: Fresh market in irrigated areas
Remarks	: Irregular emergence and poor plant stands. Only suitable for Western States grown under irrigation.

CENTURY RUSSET (Seedling # A74212-1)

Parentage	:	A6789-7 x A6680-5
Breeder	:	USDA-ARS, Aberdeen, Idaho, selected by Oregon Agricultural Experiment Station
Released	:	Pending
Classification	:	Table
DESCRIPTION		
Tuber shape	:	Blocky to long
eyes	:	Shallow
skin	:	Light russet
flesh	:	White
Plant	:	Large, upright with white flowers
CHARACTERISTICS		
Yield	:	Consistently very high
Specific Gravity	:	Medium-High. Lower than Russet Burbank, higher than Norgold Russet
Maturity	:	Very late, similar to Russet Burbank, requires longer period after vine desiccation to achieve skin set
Resistances	:	Verticillium wilt - highly resistant PVX - highly resistant Common scab - moderately resistant Foliar early blight - moderately resistant Growth cracks - tolerant Second growth - tolerant Hollow heart - tolerant
Susceptibilities	:	Tuber infection by early blight - susceptible Fusarium dry rot - highly susceptible Bruising - highly susceptible
Storability	:	Susceptible to storage diseases following damage at harvest, medium dormancy
Consumer Quality	:	Good boiling and baking, will not process well for fries
Remarks	:	A very high yielding full season russet, susceptible to harvest damage. Seed piece decay can be a problem. Sprout seed prior to planting. Plant in a warm soil and cover lightly to reduce seed piece decay. Use low rates of nitrogen and close spacing to avoid oversize. Vine kill three weeks prior to harvesting. Use extreme care during harvesting and handling to avoid bruising.

COASTAL CHIP (seedling # B9792-157)

Parentage	:	Wauseon x B5141-6
Breeder	:	USDA, Virginia, New Jersey, Maine, New York, Pennsylvania and North Carolina Agricultural Experiment Stations
Released	:	1990
Classification	:	Processing and table
DESCRIPTION		
Tuber shape	:	Round to oblong with a deeply indented stem end
eyes	:	Shallow
skin	:	Buff, netted
flesh	:	White
Plant	:	Medium size with white flowers. Many seed balls.
CHARACTERISTICS		
Yield	:	High
Specific Gravity	:	Medium
Maturity	:	Mid-season
Resistances	:	Golden nematode - resistant Verticillium wilt - tolerant
Susceptibilities	:	Hollow heart - moderately susceptible Internal necrosis - moderately susceptible
Consumer Quality	:	Excellent chipping quality and good cooking quality
Chief Market	:	Chipping
Remarks	:	Coastal Chip may prove useful as a widely adapted, high yielding chipping variety. Coastal Chip is a sibling of Atlantic, Belchip and Chipbelle.

DENALI

Parentage	:	B5141-6 x 1-62-90-64
Breeder	:	USDA and University of Alaska, Palmer, Alaska
Released	:	1978
Classification	:	Processing and table

DESCRIPTION

Tuber shape	:	Oval to oblong
eyes	:	Shallow, well distributed
skin	:	Smooth, tough, buff
flesh	:	White
Plant	:	Medium large, full, many violet flowers, vigorous until killed by frost.

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	Very high
Maturity	:	Late
Resistances	:	Heat - tolerant Cold - tolerant Rhizoctonia solani - moderately resistant Common scab - moderately resistant
Storability	:	Good. Medium dormancy
Consumer Quality	:	Excellent chipping and baking quality
Chief Market	:	Chipping
Remarks	:	Tubers set deeper than most varieties therefore sunburn and frost injury is not a problem. Dry matter is high early in the season. Internal tuber and chip browning may be a problem.

ELBA

Parentage	:	D29-10 x NY27
Breeder	:	Cornell University, Ithaca, New York
Released	:	1985
Classification	:	Table

DESCRIPTION

Tuber shape	:	Round
eyes	:	Medium deep
skin	:	Flaky, buff
flesh	:	White
Plant	:	Medium large with light purple flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	Medium
Maturity	:	Very late
Resistances	:	Golden nematode - resistant Late blight - very resistant Early blight - very resistant Verticillium wilt - excellent resistance Common scab - moderately resistant Hollow heart - tolerant
Susceptibilities	:	Heat necrosis - very susceptible
Storability	:	Good with long dormancy
Consumer Quality	:	Excellent boiling quality, without after cooking darkening
Chief Market	:	Fresh market
Remarks	:	Well adapted to organic soils. Vines may be difficult to kill and cling to tubers. Slow plant emergence.

ERIK

Parentage	:	ND4524-7 x ND4620-1
Breeder	:	University of Minnesota, St. Paul, Minnesota
Released	:	1983
Classification	:	Table

DESCRIPTION

Tuber shape	:	Blocky oblong
eyes	:	Shallow
skin	:	Red
flesh	:	White
Plant	:	Medium large with medium pink flowers having a white suture

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	Low
Maturity	:	Early
Resistances	:	Late blight - highly resistant Verticillium wilt - resistant
Susceptibilities	:	Common scab - moderately susceptible
Consumer Quality	:	Excellent boiling and fair baking quality
Chief Market	:	Early fresh market
Remarks	:	This variety is tolerant of wet soil conditions. Tubers size early for the early fresh market. Low set of large size tubers. Space closely for seed production.

F77087

Parentage	:	F68061 x F66011
Breeder	:	Agriculture Canada, Research Station, Fredericton, New Brunswick
Released	:	Expected 1991
Classification	:	Processing-chipping

DESCRIPTION

Tuber shape	:	Oblong
eyes	:	Shallow
skin	:	Smooth, white
flesh	:	White
Plant	:	Medium large size with white flowers

CHARACTERISTICS

Yield	:	Medium-high
Specific Gravity	:	Medium
Maturity	:	Mid-season
Resistances	:	Common scab - moderately resistant PVY - moderately resistant Fusarium dry rot - moderately resistant
Susceptibilities	:	PLRV - susceptible Rhizoctonia - moderately susceptible Early blight - moderately susceptible Late blight - very susceptible
Storability	:	Medium dormancy
Consumer Quality	:	Excellent chipping quality. Very suitable for chipping from storage late in the season. Good boiled and baked. Can produce after-cooking darkening when boiled.
Chief Market	:	Chipping
Remarks	:	Since tubers tend to be large, plant no further than 8 inches apart in row. Crop development and maturity is 7-10 days later than Atlantic.

FRONTIER RUSSET (Seedling # A74114-4)

Parentage	:	A66102-16 x WN330-1
Breeder	:	USDA-ARS, Aberdeen, Idaho and Idaho, Washington, Oregon and Colorado Agricultural Experiment Stations
Released	:	1990
Classification	:	Table and processing
DESCRIPTION		
Tuber shape	:	Oblong to long, cylindrical
eyes	:	Shallow, very well distributed
skin	:	Light russet, good net
flesh	:	White
Plant	:	Medium-small, upright with few white flowers
CHARACTERISTICS		
Yield	:	Medium
Specific Gravity	:	Medium
Maturity	:	Mid-season, tubers size early
Resistances	:	Fusarium dry rot - highly resistant Verticillium wilt - tolerant Shatter bruise - highly resistant Black spot bruising - highly resistant Knobbiness - tolerant Growth cracks - tolerant
Susceptibilities	:	Stem end discoloration - susceptible Hollow heart - less susceptible than Russet Burbank Early blight - susceptible Tuber rot - susceptible
Storability	:	Good, dormancy only slightly shorter than Russet Burbank
Consumer Quality	:	Good fresh market and processing quality with fry color as good as Russet Burbank out of the field and short term storage. Under certain conditions sloughing can be a problem.
Remarks	:	An attractive, early season light russet suitable for fresh market or processing with good storage charactaeristics. On the basis of trials in the Pacific Northwestern US, yields are similar to Russet Burbank with a much higher percentage of US # ones. Forming a large broad hill will help prevent sunburn and frost damage. Based on limited trials a medium nitrogen rate and seed spacing should be used to prevent oversize.

GEMCHIP (seedling # BR7093-24)

Parentage	:	BR5960-9 x ND5737-3
Breeder	:	USDA and the Idaho, Washington, Oregon and Colorado Agricultural Experiment Stations
Released	:	1989
Classification	:	Processing
DESCRIPTION		
Tuber shape	:	Round to oblong
eyes	:	Shallow
skin	:	Light tan, smooth
flesh	:	White
Plant	:	Medium size vine with white to light rose flowers
CHARACTERISTICS		
Yield	:	High
Specific Gravity	:	High
Maturity	:	Medium-late
Resistances	:	Verticillium wilt - highly resistant
Susceptibilities	:	Tuber early blight - susceptible Common scab - susceptible
Storability	:	Good. Long dormancy
Consumer Quality	:	Excellent chip quality from both field and storage
Chief Market	:	Chipping
Remarks	:	Well suited to the irrigated conditions of the Western US where it usually out yields Norchip by 30% or more in US number ones.

HILITE RUSSET

Parentage	:	Unknown
Breeder	:	Located by John Cochran in a field of Butte owned by Lynn and Curtis Loosli, Ashton, Idaho
Released	:	1987. First US potato variety to receive a full utility US Patent
Classification	:	Table and processing

DESCRIPTION

Tuber shape	:	Long, very attractive
eyes	:	Shallow, slightly lighter in color
skin	:	Light russeted
flesh	:	White
Plant	:	Small, very vigorous, upright with white flowers

CHARACTERISTICS

Yield	:	Medium to high
Specific Gravity	:	Medium
Maturity	:	Early
Resistances	:	PLRV - some field resistance Net necrosis - good resistance Internal brown spot - highly resistant Hollow heart - resistant Scab - highly resistant PVY - some field resistance Storage rots - some resistance Second growth - highly resistant Sugar end - usually not a problem
Susceptibilities	:	Verticillium wilt and other early dying diseases - susceptible Pear shaped tubers - susceptible
Storability	:	Good
Consumer Quality	:	Good for french fries and baking
Chief Market	:	Fresh market baker
Remarks	:	For information and/or contracting seed call or write Northwest Potato Sales, Inc., 951 N. Olson, Kennewick, Washington, 99336 (509-783-5404) Fax 509-735-2065. Space at 13 inches for count production.

KRANTZ

Parentage	:	MN366.65-3 x G6743-5
Breeder	:	University of Minnesota, St. Paul, Minnesota and Texas A and M University, College Station, Texas
Released	:	1985
Classification	:	Table and processing

DESCRIPTION

Tuber shape	:	Blocky oblong
eyes	:	Shallow
skin	:	Russeted, medium-heavy
flesh	:	White
Plant	:	Large, open vigorous with profusion of large white flowers throughout most of the growing season. Flowers are borne on long peduncles well above foliage.

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	Medium
Maturity	:	Mid-season, early sizing of tubers
Resistances	:	Hollow heart - extremely resistant Common scab - extremely resistant Late blight - very resistant Verticillium wilt - moderately resistant
Susceptibilities	:	Growth cracks - susceptible in heavier soils Early blight - susceptible PVX - susceptible PVS - susceptible
Storability	:	Short dormancy
Consumer Quality	:	Excellent boiling, good baking and excellent french frying quality
Chief Market	:	Fresh market for count cartons. Krantz is being tried in New Brunswick for french fries with excellent results.
Remarks	:	Good tuber set. High percentage of large size tubers.

LABELLE (seedling # La 01-38)

Parentage	:	B5461-4 x B5141-6
Breeder	:	Louisiana Agricultural Experiment Station, Baton Rouge, Louisiana and The Campbell Institute of Research and Technology, Camden, New Jersey
Released	:	1989
Classification	:	Processing and table

DESCRIPTION

Tuber shape	:	Blocky to round
eyes	:	Shallow, fairly numerous, evenly distributed
skin	:	Buff
flesh	:	White
Plant	:	Medium large, spreading. Vigorous vine growth. Flowers abundant, very attractive on long peduncles well above foliage. Color lavender to blue with grey tips.

CHARACTERISTICS

Yield	:	Very high
Specific Gravity	:	Low to medium
Maturity	:	Medium late
Resistances	:	Drought - very tolerant Hail damage - very tolerant Hollow heart - Very tolerant Internal necrosis - very resistant
Susceptibilities	:	Scab - susceptible
Storability	:	Good
Consumer Quality	:	Good chip quality, excellent for boiling with very little after-cooking darkening
Chief Market	:	Chipping
Remarks	:	High percentage of number one tubers. Wide adaptation. Plant early for good color during the storage season.

LACHIPPER

Parentage	:	Green Mountain x Cayuga
Breeder	:	Louisiana Agricultural Experiment Station, Baton Rouge, Louisiana
Released	:	1962
Classification	:	Table

DESCRIPTION

Tuber shape	:	Round
eyes	:	Medium to deep
skin	:	Buff, smooth
flesh	:	Very white
Plant	:	Medium size, spreading with cream flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	Medium high
Maturity	:	Mid-season
Resistances	:	Late blight - moderately resistant
Susceptibilities	:	Common scab - moderately susceptible
Storability	:	Good. Short dormancy
Consumer Quality	:	Good boiling quality
Chief Market	:	Export seed to the Southern States
Remarks	:	A popular variety in Florida

LANDGLADE

Parentage	:	Kennebec x W631
Breeder	:	University of Wisconsin, Madison, Wisconsin
Released	:	1985
Classification	:	Table

DESCRIPTION

Tuber shape	:	Round to oval
eyes	:	Shallow
skin	:	Buff, smooth, netted
flesh	:	White
Plant	:	Medium large with light purple flowers.

CHARACTERISTICS

Yield	:	Very high
Specific Gravity	:	Medium to good
Maturity	:	Mid-season. Tubers size early
Resistances	:	Common scab - highly resistant
Susceptibilities	:	Hollow heart - fairly susceptible Oversize - fairly susceptible
Storability	:	Good
Consumer Quality	:	Good boiling, baking, fair chipping quality
Chief Market	:	Fresh market
Remarks	:	Space at 5 to 6 inches to avoid hollow heart and oversize. Used for table and chipping in Alabama, Indiana, Ohio, Florida and Virginia.

LAROUGE

Parentage	:	L-02-5 selfed
Breeder	:	Louisiana Agricultural Experiment Station, Baton Rouge, Louisiana
Released	:	1962
Classification	:	Table

DESCRIPTION

Tuber shape	:	Round
eyes	:	Medium deep, red, many, evenly distributed
skin	:	Red, smooth
flesh	:	Medium white to cream
Plant	:	Medium size, spreading with light purple flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	Medium
Maturity	:	Medium to medium late
Resistances	:	Common scab - considerable resistance
Susceptibilities	:	Late blight - susceptible
Storability	:	Good with medium dormancy
Consumer Quality	:	Good boiling quality
Chief Market	:	Export seed to the Southern States
Remarks	:	Most popular red-skinned variety grown in Florida

LEMHI RUSSET

Parentage	:	Pioneer x A63126-8
Breeder	:	USDA and The Agricultural Experiment Stations of Idaho, Oregon, California, Washington and North Dakota
Released	:	1980
Classification	:	Processing

DESCRIPTION

Tuber shape	:	Oblong to long
eyes	:	Shallow, well distributed
skin	:	Tan, medium to heavy russet
flesh	:	White
Plant	:	Medium large size, moderately upright, red-purple flowers with prominent white tips

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	High
Maturity	:	Late
Resistances	:	Net necrosis - resistant Verticillium wilt - moderately resistant Early blight tuber rot - moderately resistant Common scab - resistant Secondary growth - resistant Jelly end - resistant
Susceptibilities	:	Black spot - highly susceptible Hollow heart - susceptible PVY - susceptible Blackleg - susceptible Fusarium - susceptible
Storability	:	Good with medium dormancy
Consumer Quality	:	Excellent for french fries
Chief Market	:	Manufacture of french fries from the field
Remarks	:	Lemhi Russet is generally not used for french fries from storage on account of the black spot problem which develops within 24 hours of harvest. Gamma radiation has been used to produce mutations in Lemhi Russet that do not have the black spot problem.

NEMARUS

Parentage	:	B7160-4 x B7610-1
Breeder	:	USDA, Beltsville, Maryland and The Florida and Maine Agricultural Experiment Stations
Released	:	1985
Classification	:	Table

DESCRIPTION

Tuber shape	:	Oblong to long
eyes	:	Moderately shallow
skin	:	Medium-heavily russeted
flesh	:	Creamy white
Plant	:	Medium large, sturdy, upright. Flowers, very sparse, pale cream to white, often incomplete on short peduncles.

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	High
Maturity	:	Mid-season
Resistances	:	Golden nematode - resistant to pathotype A PVX - highly resistant Net necrosis - highly resistant Heat necrosis - highly resistant Late blight - resistant to race 0 Common scab - tolerant Verticillium wilt - tolerant Pink eye - tolerant Fusarium tuber rot - highly resistant
Storability	:	Good with medium dormancy
Consumer Quality	:	Excellent baking and french frying from 50° F storage
Chief Market	:	Fresh market
Remarks	:	First long russeted variety released with resistance to Race A of the Golden nematode.

NORKING RUSSET

Parentage	:	Nooksack x ND9567-2 Russ
Breeder	:	North Dakota State University, Fargo, North Dakota
Released	:	1985
Classification	:	Table and processing

DESCRIPTION

Tuber shape	:	Oblong
eyes	:	Shallow
skin	:	Smooth, medium to heavy russeting
flesh	:	White
Plant	:	Good plant type with broad leaves, vigorous with large red-purple flowers

CHARACTERISTICS

Yield	:	Medium to high
Specific Gravity	:	High
Maturity	:	Mid-season to late
Resistances	:	Verticillium wilt - resistant
Susceptibilities	:	Early blight - susceptible Late blight - susceptible Hollow heart - slightly susceptible Alligator skin - slightly susceptible
Storability	:	Good
Consumer Quality	:	Good cooking and excellent french frying quality
Chief Market	:	Count carton trade as a baker
Remarks	:	Excellent plant vigor

REDDALE

Parentage	:	Erik x Chieftain
Breeder	:	University of Minnesota, St. Paul, Minnesota
Released	:	1984
Classification	:	Table

DESCRIPTION

Tuber shape	:	Round, blocky
eyes	:	Shallow
skin	:	Smooth, bright red
flesh	:	White
Plant	:	Medium large with medium pink flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	Low
Maturity	:	Mid-season. Rapid bulking
Resistances	:	Verticillium wilt - very high resistance Common scab - highly resistant Late blight - major gene resistance
Susceptibilities	:	Oversized tubers - highly susceptible Air cracking - susceptible
Storability	:	Good
Consumer Quality	:	Good boiling quality
Chief Market	:	Fresh market
Remarks	:	Grow at high plant densities to avoid oversize

RUSSET NUGGET

Parentage	:	Krantz x AND 71609-1Ru
Breeder	:	The Colorado and Texas Agricultural Experiment Stations
Released	:	1988
Classification	:	Table and processing

DESCRIPTION

Tuber shape	:	Long
eyes	:	Shallow
skin	:	Russeted
flesh	:	Creamy white
Plant	:	Very large and upright with a strong root system. Many white flowers.

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	Very high
Maturity	:	Very late
Resistances	:	Moisture stress - very resistant Hollow heart - very resistant Second growth - highly resistant Net necrosis - moderately resistant Early blight - moderately resistant Common scab - resistant Blackspot - resistant Shatter bruise - resistant Verticillium wilt - moderately resistant
Susceptibilities	:	PLRV - susceptible PVY - susceptible Bacterial soft rot - moderately susceptible
Storability	:	Good. Medium dormancy
Consumer Quality	:	Excellent boiling, baking and french fry quality
Chief Market	:	Fresh market and french frying
Remarks	:	High protein and vitamin C content. Early emergence. Purple pigmentation occasionally occurs in the tuber flesh. This is usually associated with sunburn.

SHASTA (seedling # SH-1 Line, A7822-3)

Parentage	:	Reported as A69654-4 x Targhee
Breeder	:	USDA, Aberdeen, ID and Prosser, WA, discarded 1985. Subsequent testing and selection done by Plant Genetics, Inc., Davis, CA.
Released	:	Patent pending at US Patent and Trademark Office on variety
Classification	:	Processing and fresh market

DESCRIPTION

Tuber shape	:	Long
eyes	:	Shallow
skin	:	Buff, smooth
flesh	:	White
Plant	:	Medium size and spreading, white flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	Medium high
Maturity	:	Mid to late season
Resistances	:	Early blight - highly resistant Verticillium wilt - highly resistant PVY - good field resistance PLRV - good field resistance Common scab - some resistance Silver scurf - resistant Metribuzin - highly tolerant
Susceptibilities	:	Pink eye - susceptible Hollow heart - susceptible
Storability	:	Good. Storability is improved by proper vine killing to develop a good skin set.
Consumer Quality	:	Excellent baking, boiling and french fry quality
Chief Market	:	French fry
Remarks	:	Good number of tubers per hill; space at 9" to avoid oversize. For further info contact - Plant Genetics, Inc. a Calgene Company, 1920 Fifth Street, Davis, CA, USA 95616, (916-753-1400) Fax 916-753-6199.

SIERRA

Parentage	:	A66110-39 x Targhee
Breeder	:	USDA, University of California and University of Idaho
Released	:	1986
Classification	:	Table

DESCRIPTION

Tuber shape	:	Oblong to long, blocky to flat
eyes	:	Medium
skin	:	Heavily russeted
flesh	:	White
Plant	:	Light green, upright, spreading, vigorous with light purple flowers.

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	Medium
Maturity	:	Late
Resistances	:	Hollow heart - very resistant Growth cracks - very resistant Net necrosis - very resistant Common scab - very resistant Verticillium wilt - moderately resistant Early blight - moderately resistant Storage rot - very resistant
Susceptibilities	:	Black spot - moderately susceptible Shatter bruise - slightly susceptible
Storability	:	Short to medium. Short dormancy
Consumer Quality	:	Good boiling and baking quality
Chief Market	:	Count carton trade as a baker
Remarks	:	Possible replacement for Centennial Russet and Russet Burbank as a baker. Good resistance to the herbicide Metribuzin.

SNOWDEN (seedling # W855)

Parentage	:	B5141-6 x Wischip
Breeder	:	University of Wisconsin, Madison, Wisconsin
Released	:	1990
Classification	:	Processing

DESCRIPTION

Tuber shape	:	Round-oval
eyes	:	Medium shallow
skin	:	Buff
flesh	:	White
Plant	:	Medium size with white flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	High
Maturity	:	Medium-late
Resistances	:	Scab - tolerance
Storability	:	Good
Consumer Quality	:	Excellent chipping and good boiling and baking quality
Chief Market	:	Chipping. Chips out of 45° F storage.
Remarks	:	High tuber set. Space at 12 to 15 inches. Responds well to nitrogen fertilizer.

SPARTON PEARL (seedling # MS700-83)

Parentage	:	Atlantic x Michibonne
Breeder	:	Michigan State University, East Lansing, Michigan
Released	:	1989
Classification	:	Table and processing

DESCRIPTION

Tuber shape	:	Round
eyes	:	Shallow
skin	:	Buff, smooth, light netting
flesh	:	White
Plant	:	Medium size, semi-spreading with numerous white flowers

CHARACTERISTICS

Yield	:	High
Specific Gravity	:	Medium
Maturity	:	Medium-late
Resistances	:	Scab - moderately resistant Internal defects - minimal
Susceptibilities	:	Under certain conditions air cracking at harvest has been a problem.
Storability	:	Good. Medium dormancy
Consumer Quality	:	Excellent chipping quality from field and short term storage. Good boiling quality.
Chief Market	:	Fresh market
Remarks	:	Chips out of the field and from 50° F storage.

STEUBEN (seedling # NY81)

Parentage	:	F9-31 x bulk of golden nematode susceptible clones
Breeder	:	Cornell University, Ithaca, New York
Released	:	1989
Classification	:	Table and processing

DESCRIPTION

Tuber shape	:	Oval
eyes	:	Shallow
skin	:	Flaky
flesh	:	White
Plant	:	Attractive with light green foliage. White flowers that develop early.

CHARACTERISTICS

Yield	:	Very high
Specific Gravity	:	Medium
Maturity	:	Mid season. Sizes tubers early
Resistances	:	Golden nematode - very resistant Pitted scab - very resistant Early blight - moderately resistant Verticillium wilt - resistant to reproduction of the fungus Internal necrosis - very resistant
Susceptibilities	:	Wart - susceptible Hollow heart - susceptible in over-size tubers *Russet scab - susceptible under some conditions *Prominent lenticels - susceptible under some conditions
Storability	:	Good with long tuber dormancy. (3 weeks longer than Kathadin)
Consumer Quality	:	Good cooking quality. Acceptable chipping quality from field
Chief Market	:	Fresh
Remarks	:	Space at 6 inches to avoid oversize. *Grow a small acreage initially to observe skin texture.

TEJON

Parentage	:	B7583-9 x AF 10-8
Breeder	:	University of California and North Dakota State University
Released	:	1986
Classification	:	Table
DESCRIPTION		
Tuber shape	:	Long and blocky
eyes	:	Medium
skin	:	White, smooth
flesh	:	White
Plant	:	Medium green, compact, fair vigor. White flowers.
CHARACTERISTICS		
Yield	:	High
Specific Gravity	:	Medium
Maturity	:	Very late
Resistances	:	Verticillium wilt - good resistance Early blight - moderate resistance
Susceptibilities	:	Hollow heart - moderately susceptible Internal necrosis - moderately susceptible Common scab - moderately susceptible
Storability	:	Good with long dormancy
Consumer Quality	:	Good boiling and baking quality
Chief Market	:	Fresh market
Remarks	:	A possible replacement for White Rose. Greens very easily when exposed to light. Tuber breakdown has sometimes occurred after harvest when preharvest soil temperatures have been abnormally high. Very late under New Brunswick conditions.

TOLAAS

Parentage	:	Neb. 16.55-1 x MN1106.64-1
Breeder	:	University of Minnesota, St. Paul, Minnesota
Released	:	1984
Classification	:	Processing and table
DESCRIPTION		
Tuber shape	:	Long, smooth
eyes	:	Shallow
skin	:	Tan, may develop russeting under certain conditions
flesh	:	White
Plant	:	Medium large with white flowers
CHARACTERISTICS		
Yield	:	High
Specific Gravity	:	Medium
Maturity	:	Mid-season
Resistances	:	Common scab - highly resistant Hollow heart - highly resistant Late blight - some field resistance
Storability	:	Very good with long dormancy
Consumer Quality	:	Excellent for french fries and flakes, good cooking quality
Chief Market	:	The manufacture of french fries early in season

UTE RUSSET

Parentage	:	W12-3 x Nooksack
Breeder	:	Colorado State University and USDA
Released	:	1986
Classification	:	Table

DESCRIPTION

Tuber shape	:	Oblong, smooth
eyes	:	Shallow
skin	:	Heavily russeted, dark course net
flesh	:	White
Plant	:	Erect, medium size with few white flowers

CHARACTERISTICS

Yield	:	Medium
Specific Gravity	:	Medium
Maturity	:	Late
Resistances	:	Black spot - moderately resistant Shatter bruise - moderately resistant Hollow heart - moderately resistant Second growth - moderately resistant Net necrosis - resistant Verticillium wilt - moderately resistant Scab - moderately resistant
Susceptibilities	:	Alligator hide - susceptible Avoid heavy clay soils
Storability	:	Long dormancy
Consumer Quality	:	Good boiling and baking quality
Chief Market	:	Fresh market as a baker
Remarks	:	No sensitivity to Metribuzin has been observed. Slow emergence. Ute Russet is a sibling of Centennial Russet.